

American Heart Journal

The international publication for the study of the heart and circulation

Editor in Chief: **DEAN T. MASON, MD** *San Francisco, Calif.*

Managing Editor: **LESLIE J. FLATT** *San Francisco, Calif.*

Editorial Assistant: **MARIE D. YOUNG** *San Francisco, Calif.*

Senior Manuscript Editor: **MAUREEN A. CONNOLLY** *St. Louis, Mo.*

EDITORIAL BOARD

Hugh D. Allen, MD, *Columbus*
Joseph S. Alpert, MD, *Tucson*
W. Gerald Austen, MD, *Boston*
Najam A. Awan, MD, *Sacramento*
Tali T. Bashour, MD, *Daly City*
Stanley Beder, MD, *Washington, D.C.*
Daniel S. Berman, MD, *Los Angeles*
J. Thomas Bigger, MD, *New York*
Roberto Bolli, MD, *Houston*
William J. Bommer, MD, *Sacramento*
Michael A. Brodsky, MD, *Orange*
Lawrence S. Cohen, MD, *New Haven*
Lawrence H. Cohn, MD, *Boston*
John J. Collins, Jr., MD, *Boston*
C. Richard Conti, MD, *Gainesville*
Neil L. Coplan, MD, *New York*
Anthony N. DeMaria, MD, *San Diego*
Pablo Denes, MD, *St. Paul*
Mary Allen Engle, MD, *New York*
Harvey Feigenbaum, MD, *Indianapolis*
Gary S. Francis, MD, *Minneapolis*
Victor F. Froelicher, MD, *Palo Alto*
Paul C. Gillette, MD, *Charleston*
Samuel Z. Goldhaber, MD, *Boston*
Antonio M. Gotto, Jr., MD, *Houston*
Richard J. Gray, MD, *Grand Forks*
Rolf M. Gunnar, MD, *Maywood*
Abdulmassih S. Iskandrian, MD, *Philadelphia*
Jeffrey M. Isner, MD, *Boston*
William B. Kannel, MD, *Boston*
Norman M. Kaplan, MD, *Dallas*
Samuel Kaplan, MD, *Los Angeles*
Morton J. Kern, MD, *St. Louis*
Joseph A. Kisslo, MD, *Durham*
Robert A. Kloner MD, *Los Angeles*

Arthur J. Labovitz, MD, *St. Louis*
Atul R. Laddu, MD, *Abbott Park*
Garrett Lee, MD, *San Francisco*
Floyd D. Loop, MD, *Cleveland*
Reginald I. Low, MD, *Sacramento*
Dan G. McNamara, MD, *Houston*
Jawahar Mehta, MD, *Gainesville*
Harold G. Olson, MD, *Long Beach*
Robert A. O'Rourke, MD, *San Antonio*
Anthony C. Pearson, MD, *Columbus*
Joseph K. Perloff, MD, *Los Angeles*
Bertram Pitt, MD, *Ann Arbor*
Craig M. Pratt, MD, *Houston*
Charles E. Rackley, MD, *Washington, D.C.*
P. Syamasundar Rao, MD, *Madison*
Robert L. Reis, MD, *Coral Gables*
Thomas A. Riemenschneider, MD, *Buffalo*
William C. Roberts, MD, *Dallas*
David J. Sahn, MD, *Portland*
Sanjeeva Saksena, MD, *Newark*
Patrick J. Scanlon, MD, *Maywood*
Nelson B. Schiller, MD, *San Francisco*
Robert C. Schlant, MD, *Atlanta*
James E. Seward, MD, *Rochester*
Ralph Shabetai, MD, *San Diego*
Pravin M. Shah, MD, *Loma Linda*
Robert J. Siegel, MD, *Los Angeles*
Bramah N. Singh, MD, *Los Angeles*
Ruey J. Sung, MD, *Stanford*
George W. Vetrovec, MD, *Richmond*
Stephen C. Vlay, MD, *Stony Brook*
Richard A. Walsh, MD, *Cincinnati*
David O. Williams, MD, *Providence*
Roger A. Winkle, MD, *Palo Alto*
Douglas P. Zipes, MD, *Indianapolis*

VOLUME 126
JULY-DECEMBER 1993

VOLUME 126

COPYRIGHT© 1993 BY

MOSBY-YEAR BOOK, INC.

All rights reserved

Printed in the United States of America

Author index*

A

- Abe J, Yamaguchi T, Isshiki T, Naka H, Taguchi J, Ishizaka N, Kurokawa K, Saeki F, Ishizaka Y, Ui K, Ikari Y, Somitsu Y, Hashimoto H, Kashida M. Myocardial reperfusion can be predicted by myoglobin/creatinine ratio of a single blood sample obtained at the time of admission. 1993;126:279-85
- Abe Y (see Yamada et al). 1993;126:626-31
- Abela GS (see Sassower et al). 1993;126:444-50 (Prog. cardi.)
- Adamick RD (see Pai et al). 1993;126:240-2 (Brief comm.)
- Adlakha A (see Yale et al). 1993;126:997-9 (Brief comm.)
- Admon D (see Zahner et al). 1993;126:999-1000 (Brief comm.)
- Agapitos EB (see Nerantzis et al). 1993;126:452-3 (Brief comm.)
- Agatston AS (see Guerra et al). 1993;126:600-6
- (see Santana et al). 1993;126:737-40 (Brief comm.)
- Ahmad S. Diltiazem myopathy. 1993;126:1494-5 (Letter)
- Aizawa Y, Tamura M, Chinushi M, Naitoh N, Uchiyama H, Kusano Y, Hosono H, Shibata A. Idiopathic ventricular fibrillation and bradycardia-dependent intraventricular block. 1993;126:1473-4 (Brief comm.)
- Ajiki K (see Murakawa et al). 1993;126:108-14
- (see Yamashita et al). 1993;126:719-22 (Brief comm.)
- (see Yamashita et al). 1993;126:742-4 (Brief comm.)
- Akaishi M (see Sadanaga et al). 1993;126:114-21
- Akinboye OO, Brown EJ Jr, Queiroz R, Cusi VP, Horowitz LF, Jonas EA, Freeman I. Recurrent pulmonary embolism with second-degree atrioventricular block and near syncope. 1993;126:731-2 (Brief comm.)
- Alampi G (see Buja et al). 1993;126:1187-93
- Allen BJ (see Brodsky et al). 1993;126:1113-20
- (see Orlov et al). 1993;126:1348-56
- Allen HD (see Teske et al). 1993;126:1233-5 (Brief comm.)
- Almgren O (see Wiesfeld et al). 1993;126:1008-11 (Brief comm.)
- Alvarez-Postado R (see Samaniego et al). 1993;126:1005-6 (Brief comm.)
- Al-Zarka AM (see Haft and Al-Zarka). 1993;126:551-61
- Amaha K (see Mitaka et al). 1993;126:466-8 (Brief comm.)
- Ambrose JA (see Sharma et al). 1993;126:39-47
- Ammash N (see Stoddard et al). 1993;126:956-62 (Prog. cardi.)
- Amro AA (see Habbab and Amro). 1993;126:456-8 (Brief comm.)
- Anconina J (see Marie et al). 1993;126:571-7
- Andersson B, Waagstein F. Spectrum and outcome of congestive heart failure in a hospitalized population. 1993;126:632-40
- Antonitis DM (see Labovitz et al). 1993;126:1456-61 (Prog. cardi.)
- Appleton RS, Jureidini SB, Balfour I, Nouri S. Umbilical vein cardiac catheterization. 1993;126:1494 (Letter reply)
- Appunni DO (see Shettigar et al). 1993;126:368-74
- Arafah MR (see Ribeiro et al). 1993;126:136-40
- Ardehali A, Drinkwater DC Jr, Laks H, Drake TA. Cardiac allograft vasculopathy. 1993;126:1498-502 (Editorial)
- Aretz TA (see Fram et al). 1993;126:969-78 (Prog. cardi.)
- Armitage JM (see Murali et al). 1993;126:896-904
- Arnall J-F, Philippe M, Laboulandine I, Michel J-B. Effect of perindopril in rat cardiac volume overload. 1993;126:775-81 (Symposium)
- Arora R (see Kaul et al). 1993;126:1152-5
- Arora RR, Magun AM, Grossman M, Katz J. Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction. 1993;126:225-8 (Brief comm.)
- Atwood JE (see Ueshima et al). 1993;126:260-1 (Brief comm.)
- (see Ueshima et al). 1993;126:1021-4 (Brief comm.)
- Auricchio A (see Sommariva et al). 1993;126:256-8 (Brief comm.)
- Auzépy P (see Richard et al). 1993;126:782-8 (Symposium)
- Awad M (see Ribeiro et al). 1993;126:136-40

B

- Babbs CF. Interposed abdominal compression-cardiopulmonary resuscitation: Are we missing the mark in clinical trials? 1993;126:1035-41 (Editorial)
- Bach RG (see Karim et al). 1993;126:727-31 (Brief comm.)

*July, pp. 1-270; August, pp. 271-502; September, part 1, pp. 503-754; part 2, pp. 755-806; October, pp. 807-1048; November, pp. 1049-1268; December, pp. 1269-1544.

- Baeza J (see Sanchez-Bayle et al). 1993;126:322-6
- Bahl VK (see Dev et al). 1993;126:930-6 (Curriculum cardi.)
- Bailey KR (see Grogan et al). 1993;126:327-32
- Baker S (see Becker et al). 1993;126:11-4
- Balfour I (see Appleton et al). 1993;126:1494 (Letter reply)
- Balko G (see Blankenship et al). 1993;126:989-95 (Brief comm.)
- Ball S (see Becker et al). 1993;126:11-4
- (see Becker et al). 1993;126:750-2 (Brief comm.)
- Banka VS (see Fail et al). 1993;126:1059-67
- Barbier P, Bartorelli AL. Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction. 1993;126:483-7 (Brief comm.)
- Barbour MM (see Heller et al). 1993;126:1077-83
- Barry J (see Raby et al). 1993;126:333-8
- Bartlett-Pandite AN (see Mosseri et al). 1993;126:338-46
- Bartorelli AL (see Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)
- Bashour TT, Mansour NN, Lee D. Multiple coronary arterial loops as a cause of myocardial ischemia. 1993;126:219-21 (Brief comm.)
- Baszko A (see Gill et al). 1993;126:1357-63
- Batra S (see Horimoto et al). 1993;126:1002-5 (Brief comm.)
- Baylen BG (see Cyran et al). 1993;126:1024-9 (Brief comm.)
- Beauchamp GD (see Handlin et al). 1993;126:235-40 (Brief comm.)
- (see Vacek et al). 1993;126:521-5
- Becker RC, Caputo R, Ball S, Corrao JM, Baker S, Gore JM. Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration. 1993;126:11-4
- , Corrao JM, Ball SP, Gore JM. A comparison of heparin strategies after thrombolytic therapy. 1993;126:750-2 (Brief comm.)
- Belch JFF (see Bridges et al). 1993;126:451-2 (Brief comm.)
- Bergstrand RH (see Wiesfeld et al). 1993;126:1008-11 (Brief comm.)
- Beria G (see Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
- Berland J (see Chan et al). 1993;126:985-7 (Brief comm.)
- Berlin M (see Siegel et al). 1993;126:872-8
- Bernstein NE, Freedberg RS, O'Brien FJ, Kronzon I. Four-valve endocarditis resulting from *Staphylococcus aureus* diagnosed by biplane transesophageal echocardiography. 1993;126:251-4 (Brief comm.)
- Berrios E (see Ohman et al). 1993;126:819-26
- Bertrand A (see Marie et al). 1993;126:571-7
- Beurrier D (see Marie et al). 1993;126:571-7
- Bhadha K, Marchlinski FE, Iskandrian AS. Ventricular tachycardia in patients without structural heart disease. 1993;126:1194-8 (Curriculum cardi.)
- Bhargava M (see Kaul et al). 1993;126:1152-5
- Bhattacharya S (see Senior et al). 1993;126:536-42
- Biasucci L (see Katz et al). 1993;126:141-6
- Bilsker M (see Horowitz et al). 1993;126:472-3 (Brief comm.)
- Bitar FF, Smith FC, Kavey R-EW, Kveselis DA, Byrum CJ, Brandt B, Gaum WE. Aortico-left ventricular tunnel with aortic atresia in the newborn. 1993;126:1480-2 (Brief comm.)
- Black IW, Hopkins AP, Lee LCL, Walsh WF. Evaluation of transesophageal echocardiography before cardioversion of atrial fibrillation and flutter in nonanticoagulated patients. 1993;126:375-81
- Blankenship DC, Hug G, Balko G, van der Bel-Kann J, Coith RL Jr, Engel PJ. Hemodynamic and myocyte mitochondrial ultrastructural abnormalities in arrhythmogenic right ventricular dysplasia. 1993;126:989-95 (Brief comm.)
- Blaszczak K (see Gill et al). 1993;126:1126-33
- Blatt CM, Lampert S, Graboyes TB. Is exercise testing safe in patients treated with flecainide for atrial arrhythmia? 1993;126:268-9 (Editorial)
- Blumenthal RS (see Resar et al). 1993;126:300-4
- Bodenheimer MM (see Pai et al). 1993;126:240-2 (Brief comm.)
- Bodian CA (see Sharma et al). 1993;126:39-47
- Bodur G, Friart A. Intermittent regurgitation flow with Björk-Shiley mitral prosthesis in atrial fibrillation. 1993;126:1006-7 (Brief comm.)
- Böhm M (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
- Bonan R, Paiement P, Scorticchi D, Cloutier M-J, Leung TK. Coronary restenosis: evaluation of a restenosis injury index in a swine model. 1993;126:1334-40
- Boncinelli L (see Marchionni et al). 1993;126:147-54
- Botvinick E (see Newman et al). 1993;126:1106-12
- Botvinick EH (see Krishnan et al). 1993;126:578-86
- (see Wolfe et al). 1993;126:1275-86

- Boudoulas H (see Michaelides et al). 1993;126:1320-5
— (see Triposkiadis et al). 1993;126:1175-81
Bounhoure J-P (see Lechat et al). 1993;126:798-806 (Symposium)
Boyce K, Henjum S, Helmer G, Chen P-S. Radiofrequency catheter ablation of the accessory pathway in the permanent form of junctional reciprocating tachycardia. 1993;126:716-9 (Brief comm.)
Brandt B (see Bitar et al). 1993;126:1480-2 (Brief comm.)
Breithardt G (see Schwammthal et al). 1993;126:221-5 (Brief comm.)
Brennan C (see Katz et al). 1993;126:141-6
Bridges AB, McAlpine HM, Pringle TH, McLaren M, Belch JFF. Endothelial dysfunction in acute myocardial infarction after reperfusion. 1993;126:451-2 (Brief comm.)
— (see McLay et al). 1993;126:879-86
Brinker JA (see Resar et al). 1993;126:300-4
Brodsky MA, Orlov MV, Winters RJ, Allen BJ. Determinants of inducible ventricular tachycardia in patients with clinical ventricular tachyarrhythmia and no apparent structural heart disease. 1993;126:1113-20
— (see Orlov et al). 1993;126:1348-56
Brooks S (see Norris et al). 1993;126:1312-9
Brown EJ Jr (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
Bruneval P (see Steg et al). 1993;126:1477-80 (Brief comm.)
Brunner HR (see Drexler et al). 1993;126:761-3 (Symposium)
Bryant JL (see Yang et al). 1993;126:1287-92
Buffet P (see Marie et al). 1993;126:571-7
Buja G, Nava A, Daliento L, Scognamiglio R, Miorelli M, Canciani B, Alampi G, Thieme G. Right ventricular cardiomyopathy in identical and nonidentical young twins. 1993;126:1187-93
Burch C (see Rubin et al). 1993;126:233-4 (Brief comm.)
Burger L (see Vlay et al). 1993;126:807-15
Burgisser C (see Marchionni et al). 1993;126:147-54
Byers SL (see Takase et al). 1993;126:1099-106
Byrum CJ (see Bitar et al). 1993;126:1480-2 (Brief comm.)
- C**
- Cabrol C (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
Cacoub P, Dorent R, Nataf P, Carayon A, Maistre G, Piette JC, Godeau P, Cabrol C, Gandjbakhch I. Plasma endothelin and pulmonary pressures in patients with congestive heart failure. 1993;126:1484-8 (Brief comm.)
Califf RM (see Ohman et al). 1993;126:819-26
Camm AJ (see Gill et al). 1993;126:390-8
— (see Gill et al). 1993;126:126-33
— (see Gill et al). 1993;126:1357-63
Campana M (see Cuccia et al). 1993;126:468-72 (Brief comm.)
Canciani B (see Buja et al). 1993;126:1187-93
Cannon R (see Steg et al). 1993;126:1477-80 (Brief comm.)
Canter CE (see Johnson et al). 1993;126:1493 (Letter reply)
Caputo R (see Becker et al). 1993;126:11-4
Caracciolo E (see Karim et al). 1993;126:727-31 (Brief comm.)
Carayon A (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
Case CL, Gillette PC, Douglas DE, Liebermann RA. Radiofrequency catheter ablation of atrial flutter in a patient with post-operative congenital heart disease. 1993;126:715-6 (Brief comm.)
Castello R (see Richard et al). 1993;126:710-2 (Brief comm.)
Castillon M (see Samaniego et al). 1993;126:1005-6 (Brief comm.)
Cave V (see Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)
Centanni M (see Pupita et al). 1993;126:86-94
Chae JS (see Siegel et al). 1993;126:872-8
Chaitman BR (see Takase et al). 1993;126:1099-106
Chakko S, Mulingtapang RF, Huikuri HV, Kessler KM, Materson BJ, Myerburg RJ. Alterations in heart rate variability and its circadian rhythm in hypertensive patients with left ventricular hypertrophy free of coronary artery disease. 1993;126:1364-72
Chan CNS, Berland J, Cribier A, Letac B. Angioplasty of the right coronary artery with origin of all three coronary arteries from a single ostium in the right sinus of Valsalva. 1993;126:985-7 (Brief comm.)
Chang M-S (see Chen et al). 1993;126:619-25
— (see Chiang et al). 1993;126:1213-6 (Brief comm.)
— (see Wu et al). 1993;126:1341-8
Charney R, Cohen M. The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size. 1993;126:937-45
Chaudhuri TK (see Norris et al). 1993;126:676-85 (Prog. cardiol.)
Chazouilleres AF, Foster E, Redberg RF, Schiller NB. Right ventricular outflow tract obstruction: augmented diagnosis with biplane transesophageal echocardiography. 1993;126:477-80 (Brief comm.)
Cheitlin MD (see Chu and Cheitlin). 1993;126:1427-38 (Curriculum cardiol.)
Chemla D (see Lecarpentier et al). 1993;126:770-5 (Symposium)
Chen J-H (see Lin et al). 1993;126:735-7 (Brief comm.)
Chen P-S (see Boyce et al). 1993;126:716-9 (Brief comm.)
Chen S-A, Chiang C-E, Yang C-J, Cheng C-C, Wu T-J, Wang S-P, Chiang BN, Chang M-S. Usefulness of serial follow-up electrophysiologic studies in predicting late outcome of radiofrequency ablation for accessory pathways and atrioventricular nodal re-entrant tachycardia. 1993;126:619-25
— (see Chiang et al). 1993;126:1213-6 (Brief comm.)
— (see Wu et al). 1993;126:1341-8
Chen W-J (see Ma et al). 1993;126:1227-9 (Brief comm.)
Chen X (see Sims et al). 1993;126:863-71
Chen Y-C (see Yeh et al). 1993;126:474-5 (Brief comm.)
Cheng C-C (see Chen et al). 1993;126:619-25
— (see Chiang et al). 1993;126:1213-6 (Brief comm.)
— (see Wu et al). 1993;126:1341-8
Cherrier F (see Marie et al). 1993;126:571-7
Chiang BN (see Chen et al). 1993;126:619-25
— (see Chiang et al). 1993;126:1213-6 (Brief comm.)
— (see Wu et al). 1993;126:1341-8
Chiang C-E, Chen S-A, Yang C-R, Cheng C-C, Wu T-R, Chiang BN, Wang S-P, Chang M-S. Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus. 1993;126:1213-6 (Brief comm.)
— (see Chen et al). 1993;126:619-25
— (see Wu et al). 1993;126:1341-8
Chiariello L (see Sommariva et al). 1993;126:256-8 (Brief comm.)
Chien WW, Lesh MD. Radiofrequency catheter ablation of an accessory pathway with discontinuous retrograde conduction: potential insight into mechanism of longitudinal dissociation. 1993;126:712-5 (Brief comm.)
Chin M (see Newman et al). 1993;126:1106-12
Chino C (see Takei et al). 1993;126:458-9 (Brief comm.)
Chinushi M (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
Cho SK (see Yoon et al). 1993;126:1014-5 (Brief comm.)
Choi YS (see Lee et al). 1993;126:1401-7
Chong CYP (see Webster et al). 1993;126:480-3 (Brief comm.)
Chow MSS (see Ujhelyi et al). 1993;126:352-9
Christenson RH (see Ohman et al). 1993;126:819-26
Christian TF (see Grogan et al). 1993;126:327-32
Chu E, Cheitlin MD. Diagnostic considerations in patients with suspected coronary artery anomalies. 1993;126:1427-38 (Curriculum cardiol.)
Chua SO (see Yeh et al). 1993;126:474-5 (Brief comm.)
Chung KJ (see Simpson et al). 1993;126:1165-74
Ciaroni S, Delonca J, Righetti A. Early exercise testing after acute myocardial infarction in the elderly: clinical evaluation and prognostic significance. 1993;126:304-11
Cleary RM, Moore NB, DeBoe SF, Mancini GBJ. Sensitivity and reproducibility of the instantaneous hyperemic flow versus pressure slope index compared to coronary flow reserve for the assessment of stenosis severity. 1993;126:57-65
Clements IP (see Fletcher et al). 1993;126:526-35
Cloutier DJ (see Heller et al). 1993;126:1077-83
Cloutier M-J (see Bonan et al). 1993;126:1334-40
Cobb C (see Wolfe et al). 1993;126:1275-86
Cocho P (see Sanchez-Bayle et al). 1993;126:322-6
Cohen M (see Charney and Cohen). 1993;126:937-45
Cohen MV. Myocardial ischemia is not a prerequisite for the stimulation of coronary collateral development. 1993;126:847-55
Cohen TJ. Innovative emergency defibrillation methods for refractory ventricular fibrillation in a variety of hospital settings. 1993;126:962-8 (Prog. cardiol.)
Cohn JN. Contribution of ACE inhibition to the management of heart failure: introduction. 1993;126:755 (Symposium)
Cohn PF (see Jain et al). 1993;126:543-51
Coirault C (see Lecarpentier et al). 1993;126:770-5 (Symposium)
Coith RL Jr (see Blankenship et al). 1993;126:989-95 (Brief comm.)
Coles NA, Hibberd M, Russell M, Love T, Ory D, Field TS, Dec GW, Eagle KA. Potential impact of pulmonary artery catheter placement on short-term management decisions in the medical intensive care unit. 1993;126:815-9

- Coletta D (see Losordo et al). 1993;126:168-76
Collins C (see Stadius et al). 1993;126:47-56
Colnaghi C (see Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
Coombs V (see Resar et al). 1993;126:300-4
Cooper CJ, Dweik R, Gabbay S. Treatment of pacemaker-associated right atrial thrombus with 2-hour rTPA infusion. 1993;126:228-9 (Brief comm.)
Corey WA, Markel ML, Hoit BD, Walsh RA. Regression of a dilated cardiomyopathy after radiofrequency ablation of incessant supraventricular tachycardia. 1993;126:1469-73 (Brief comm.)
Corin WJ (see Vassalli et al). 1993;126:1091-8
Corning JJ (see Heller et al). 1993;126:1077-83
Corrao JM (see Becker et al). 1993;126:11-4
— (see Becker et al). 1993;126:750-2 (Brief comm.)
Cranney GB (see Leung et al). 1993;126:732-4 (Brief comm.)
Cravens TL (see Labovitz et al). 1993;126:1456-61 (Prog. cardi.)
Crean PA (see Foley et al). 1993;126:705-7 (Brief comm.)
Creswell LL (see Dávila-Román et al). 1993;126:155-60
Cribier A (see Chan et al). 1993;126:985-7 (Brief comm.)
Crijns HJGM (see Tuininga et al). 1993;126:359-67
— (see Wiesfeld et al). 1993;126:1008-11 (Brief comm.)
Crouse LJ (see Vacek et al). 1993;126:521-5
Crowe KE, Iannone LA. Percutaneous transluminal angioplasty for subclavian artery stenosis in patients with subclavian steal syndrome and coronary subclavian steal syndrome. 1993;126:229-33 (Brief comm.)
Cuccia C, Campana M, Franzoni P, Faggiano P, Volterrani M, Musmeci G, Visioli O. Effectiveness of intravenous tPA in the treatment of massive pulmonary embolism and right heart thromboembolism. 1993;126:468-72 (Brief comm.)
Cullen S, Redington AN. Doppler-detected aortic coarctation with PDA. 1993;126:1493 (Letter)
Cusi VP (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
Cyran SE, Grzeszczak M, Haas JH, Baylen BG. Characterization of the aortic echo-Doppler profile in normal children during maximal treadmill exercise. 1993;126:1024-9 (Brief comm.)
- D**
- Dae M (see Newman et al). 1993;126:1106-12
Dae MW (see Krishnan et al). 1993;126:578-86
— (see Wolfe et al). 1993;126:1275-86
Dahlberg ST (see Hendel et al). 1993;126:856-62
— (see Villegas et al). 1993;126:103-7
Dalliento L (see Buja et al). 1993;126:1187-93
Dalvi B, Sharma S. Anatomically corrected malposition: report of six cases. 1993;126:1229-32 (Brief comm.)
Damato AN (see Patel et al). 1993;126:184-8
Danchin N, Juilliere Y, Foley D, Serruys PW. Visual versus quantitative assessment of the severity of coronary artery stenoses: Can the angiographer's eye be reeducated? 1993;126:594-600
— (see Marie et al). 1993;126:571-7
Das G (see Goswami et al). 1993;126:1147-51
David M (see Movsowitz et al). 1993;126:745-7 (Brief comm.)
Dávila-Román VG, Creswell LL, Rosenbloom M, Pérez JE. Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship. 1993;126:155-60
DeBoe SF (see Cleary et al). 1993;126:57-65
Dec GW (see Coles et al). 1993;126:815-9
Dee W, Geibel A, Kasper W, Konstantinides S, Just H. Mobile thrombi in atherosclerotic lesions of the thoracic aorta: the diagnostic impact of transesophageal echocardiography. 1993;126:707-10 (Brief comm.)
de Feyter PJ (see Escaned et al). 1993;126:1326-33
deGuzman M (see Norris et al). 1993;126:1312-9
Delonca J (see Ciaroni et al). 1993;126:304-11
Denfield SW, Kearney DL, Michael L, Gittenberger-de Groot A, Garson A Jr. Developmental differences in canine cardiac surgical scars. 1993;126:382-9
Denys BG (see Murali et al). 1993;126:896-904
de Peppo AP (see Sommariva et al). 1993;126:256-8 (Brief comm.)
Depret J (see Richard et al). 1993;126:782-8 (Symposium)
de Roos A (see Rebergen et al). 1993;126:1439-56 (Prog. cardi.)

- Dervan JP (see Jain et al). 1993;126:543-51
Desche P (see Lecarpentier et al). 1993;126:770-5 (Symposium)
— (see Lechat et al). 1993;126:798-806 (Symposium)
De Scheerder IK (see Piessens et al). 1993;126:565-70
Deshmukh HG, Khosla S, Jefferson KK. Direct visualization of left ventricular free wall rupture by transesophageal echocardiography in acute myocardial infarction. 1993;126:475-7 (Brief comm.)
Desmet W (see Piessens et al). 1993;126:565-70
Dessi-Fulgheri P (see Pupita et al). 1993;126:86-94
Dev V, Goswami KC, Shrivastava S, Bahl VK, Saxena A. Echocardiographic diagnosis of aneurysm of the sinus of Valsalva. 1993;126:930-6 (Curriculum cardi.)
— (see Goswami et al). 1993;126:433-40
— (see Goswami et al). 1993;126:1147-51
Devereaux RB (see Karkal et al). 1993;126:242-6 (Brief comm.)
Diaz-Moncada S (see Vargas-Barron et al). 1993;126:426-32
Di Bari M (see Marchionni et al). 1993;126:147-54
Dietze O (see Schwaiger et al). 1993;126:406-10
Di Mario C (see Escaned et al). 1993;126:1326-33
— (see Haase et al). 1993;126:312-21
Dirks R (see Werner et al). 1993;126:1408-16
Dissmann R, Linderer T, Goerke M, von Arnim H, Rennhak U, Schröder R. Sudden increase of the ST segment elevation at time of reperfusion predicts extensive infarcts in patients with intravenous thrombolysis. 1993;126:832-9
Di Tullio M (see Sherman et al). 1993;126:254-6 (Brief comm.)
Dohnal M (see Lamm et al). 1993;126:66-75
Domenici B (see Galante et al). 1993;126:1491 (Letter)
Donohue TJ (see Karim et al). 1993;126:727-31 (Brief comm.)
Doornbos J (see Rebergen et al). 1993;126:1439-56 (Prog. cardi.)
Dorent R (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
Dörr (see Heintz et al). 1993;126:987-9 (Brief comm.)
Douglas DE (see Case et al). 1993;126:715-6 (Brief comm.)
Dowie A (see Fraix et al). 1993;126:1219-22 (Brief comm.)
Drake TA (see Ardehali et al). 1993;126:1498-502 (Editorial)
Dressler F (see Karim et al). 1993;126:727-31 (Brief comm.)
Dressler FA (see Richard et al). 1993;126:710-2 (Brief comm.)
Drexler H, Hayoz D, Münzel T, Just H, Zelis R, Brunner HR. Endothelial function in congestive heart failure. 1993;126:761-3 (Symposium)
Drinkwater DC Jr (see Ardehali et al). 1993;126:1498-502 (Editorial)
Dubin JD (see Mera et al). 1993;126:1224-5 (Brief comm.)
Dubois-Randé J-L (see Dupouy et al). 1993;126:76-85
Dunn B (see Fawzy et al). 1993;126:1380-4
Dunn BE (see Ribeiro et al). 1993;126:136-40
Dupouy P, Geschwind HJ, Pelle G, Gallot D, Dubois-Randé J-L. Assessment of coronary vasomotion by intracoronary ultrasound. 1993;126:76-85
Duran CGM (see Ribeiro et al). 1993;126:136-40
Dweik R (see Cooper et al). 1993;126:228-9 (Brief comm.)
Dweik RB (see Heller et al). 1993;126:1077-83

E

- Eagan JT Jr (see Strumpf et al). 1993;126:1204-10 (Prog. cardi.)
Eagle KA (see Coles et al). 1993;126:815-9
Edwards AC (see Webster et al). 1993;126:480-3 (Brief comm.)
Ehlert FA (see Goldberger et al). 1993;126:488-93 (Brief comm.)
Ehrenpreis S (see Jaffrani et al). 1993;126:1239-42 (Editorial)
Eicher M (see Lax et al). 1993;126:415-8
El-Deeb F (see Fawzy et al). 1993;126:1380-4
Elias W (see Simpson et al). 1993;126:1165-74
Emanuelsson H (see Lamm et al). 1993;126:66-75
Emlein G, Huang SKS, Pires LA, Rofino K, Okike ON, Vander Salm TJ. Prolonged bradyarrhythmias after isolated coronary artery bypass graft surgery. 1993;126:1084-90
Emoto H (see Tominaga et al). 1993;126:1049-58
Endoh S (see Yamaoka et al). 1993;126:1372-9
Engel PJ (see Blankenship et al). 1993;126:989-95 (Brief comm.)
Erbil R (see Haude et al). 1993;126:15-22
Erdmann E (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
Escaned J, Foley DP, Haase J, Di Mario C, Hermans WR, de Feyter PJ, Serruys PW. Quantitative angiography during coronary angioplasty with a single angiographic view: a comparison of automated edge detection and videodensitometric techniques. 1993;126:1326-33
Eto H (see Takahira et al). 1993;126:995-7 (Brief comm.)

F

- Fabris B (see Johnston et al). 1993;126:756-60 (Symposium)
 Faggiano P (see Cuccia et al). 1993;126:468-72 (Brief comm.)
 Fail PS, Maniet AR, Banka VS. Subcutaneous heparin in postangioplasty management: comparative trial with intravenous heparin. 1993;126:1059-67
 Fang C-C, Tsai L-M. Hematologic complications of diltiazem overdose. 1993;126:1017-8 (Brief comm.)
 Fantasia G (see Raby et al). 1993;126:333-8
 Fawzy ME, von Sinner W, Rifai A, Galal O, Dunn B, El-Deeb F, Zaman L. Magnetic resonance imaging compared with angiography in the evaluation of intermediate-term result of coarctation balloon angioplasty. 1993;126:1380-4
 — (see Ribeiro et al). 1993;126:136-40
 Fazio GP (see Winslow et al). 1993;126:410-4
 Feld H, Schulhoff N, Lichstein E, Greengart A, Frankel R, Hollander G, Shani J. Coronary atherosclerosis versus angioplasty: the CAVA study. 1993;126:31-8
 Ferguson JL (see Louie et al). 1993;126:514-20
 Ferrans VJ (see Sanchez et al). 1993;126:1392-1401
 Ferretti GF (see Pupita et al). 1993;126:86-94
 Ferrucci L (see Marchionni et al). 1993;126:147-54
 Field TS (see Coles et al). 1993;126:815-9
 Figulla HR (see Werner et al). 1993;126:1408-16
 Finn JP (see Hartnell et al). 1993;126:1032-4 (Brief comm.)
 Fishbein MC (see Siegel et al). 1993;126:872-8
 Fisher JR (see Ujhelyi et al). 1993;126:352-9
 Fisher ML (see Schwengel et al). 1993;126:1182-6
 Fitzgerald PJ, Kaplan JD, Smedira N, Struck A, Schiller NB, Redberg RF. Unusual case of total pulsus alternans that resulted from varying afterload caused by a subclavian artery rupture. 1993;126:1000-2 (Brief comm.)
 Fletcher WO, Gibbons RJ, Clements IP. The relationship of inferior ST depression, lateral ST elevation, and left precordial ST elevation to myocardium at risk in acute anterior myocardial infarction. 1993;126:526-35
 Foley D (see Danchin et al). 1993;126:594-600
 Foley DP (see Escaned et al). 1993;126:1326-33
 — (see Haase et al). 1993;126:312-21
 — (see Serruys et al). 1993;126:1243-67 (Editorial)
 — (see Foley et al). 1993;126:705-7 (Brief comm.)
 Foley JB, Foley D, Molloy M, Crean PA, Gearty GF, Walsh ML. Acute impact of percutaneous transluminal coronary angioplasty on the ischemic burden in stable and unstable angina. 1993;126:705-7 (Brief comm.)
 Foster E (see Chazouilleres et al). 1993;126:477-80 (Brief comm.)
 Fraiss MA, Dowie A, McEwen B, Wyeth RP, Kim SW. Response of the QT-sensing rate-adaptive ventricular pacemaker to mental stress. 1993;126:1219-22 (Brief comm.)
 Fram DB, Aretz TA, Mikan JF, Rainsner A, Mitchell JF, Gillam LD, Waters DD, McKay RG. In vivo radiofrequency thermal balloon angioplasty of porcine coronary arteries: histologic effects and safety. 1993;126:969-78 (Prog. cardi.)
 Frankel R (see Feld et al). 1993;126:31-8
 Franz M (see Newman et al). 1993;126:1106-12
 Franzoni P (see Cuccia et al). 1993;126:468-72 (Brief comm.)
 Fraser CG (see McLaughlin et al). 1993;126:879-86
 Frediani M (see Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
 Freedberg RS (see Bernstein et al). 1993;126:251-4 (Brief comm.)
 Freeman I (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
 Freeman WK (see Kishon et al). 1993;126:667-75 (Prog. cardi.)
 Friart A (see Bodur and Friart). 1993;126:1006-7 (Brief comm.)
 Friedl SE (see Sassower et al). 1993;126:444-50 (Prog. cardi.)
 Friedman EH. CNS-mediated coronary spasm. 1993;126:1490 (Letter)
 Friedman M, Ghandour G. Medical diagnosis of type A behavior. 1993;126:607-18
 Froelicher VF (see Rodriguez et al). 1993;126:752-4 (Brief comm.)
 — (see Ueshima et al). 1993;126:260-1 (Brief comm.)
 — (see Ueshima et al). 1993;126:1021-4 (Brief comm.)
 Froning J (see Rodriguez et al). 1993;126:752-4 (Brief comm.)
 Fu M (see Yeh et al). 1993;126:474-5 (Brief comm.)
 Fujita M (see Hirai et al). 1993;126:827-31
 Fukai T, Koyanagi S, Takeshita A. Role of coronary vasospasm in the pathogenesis of myocardial infarction: study in patients with no significant coronary stenosis. 1993;126:1305-11
 Fukui T (see Horio et al). 1993;126:293-9
 Fukunami M (see Yamada et al). 1993;126:626-31
 Fumagalli S (see Marchionni et al). 1993;126:147-54

- Furihata A (see Takei et al). 1993;126:458-9 (Brief comm.)
 Furuta S (see Takei et al). 1993;126:458-9 (Brief comm.)
 Furuyama M (see Ikeda et al). 1993;126:130-5

G

- Gabbay S (see Cooper et al). 1993;126:228-9 (Brief comm.)
 Galal O (see Fawzy et al). 1993;126:1380-4
 Galante A, Pietroiusti A, Domenici B, Magrini A. Low-nicotine cigarettes on CAD. 1993;126:1491 (Letter)
 Gallot D (see Dupouy et al). 1993;126:76-85
 Gandjbakhch I (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
 Gane G (see Gill et al). 1993;126:390-8
 Gantenberg NS (see Hageman and Gantenberg). 1993;126:347-51
 Ganz P (see Raby et al). 1993;126:333-8
 Garber CE (see Heller et al). 1993;126:1077-83
 Garcia E (see Steg et al). 1993;126:1477-80 (Brief comm.)
 Gardner CJ (see Raitt et al). 1993;126:946-55 (Curriculum cardi.)
 Garnham SP (see Lechat et al). 1993;126:798-806 (Symposium)
 Garson A Jr (see Denfield et al). 1993;126:382-9
 Gaum WE (see Bitar et al). 1993;126:1480-2 (Brief comm.)
 Gearty GF (see Foley et al). 1993;126:705-7 (Brief comm.)
 Geibel A (see Dee et al). 1993;126:707-10 (Brief comm.)
 — (see Konstantinides et al). 1993;126:909-17
 George BS (see Ohman et al). 1993;126:819-26
 Gersh BJ (see Kishon et al). 1993;126:667-75 (Prog. cardi.)
 Geschwind HJ (see Dupouy et al). 1993;126:76-85
 Ghandour G (see Friedman and Ghandour). 1993;126:607-18
 Gheorghiadu M, Shivkumar K, Schultz L, Jafri S, Tilley B, Goldstein S. Prognostic significance of electrocardiographic persistent ST depression in patients with their first myocardial infarction in the placebo arm of the Beta Blocker Heart Attack Trial. 1993;126:271-8
 Gibbons RJ (see Fletcher et al). 1993;126:526-35
 — (see Grogan et al). 1993;126:327-32
 Giles HR (see Wolz et al). 1993;126:246-8 (Brief comm.)
 Gill JS, Baszko A, Xia R, Ward DE, Camm AJ. Dynamics of the QT interval in patients with exercise-induced ventricular tachycardia in normal and abnormal hearts. 1993;126:1357-63
 —, Blaszyk K, Ward DE, Camm AJ. Verapamil for the suppression of idiopathic ventricular tachycardia of left bundle branch block-like morphology. 1993;126:1126-33
 —, Hunter GJ, Gane G, Camm AJ. Heterogeneity of the human myocardial sympathetic innervation: in vivo demonstration by iodine 123-labeled meta-iodobenzylguanidine scintigraphy. 1993;126:390-8
 Gillam LD (see Fram et al). 1993;126:969-78 (Prog. cardi.)
 Gillissen T (see Heintz et al). 1993;126:987-9 (Brief comm.)
 Gillette PC (see Case et al). 1993;126:715-6 (Brief comm.)
 Gillum RF. Epidemiology of heart failure in the United States. 1993;126:1042-7 (Editorial)
 —. U.S. trends in rheumatic fever and heart disease. 1993;126:1496-7 (Letter)
 Gittenberger-de Groot A (see Denfield et al). 1993;126:382-9
 Giudicelli J-F (see Richard et al). 1993;126:782-8 (Symposium)
 Goad JL (see Stoddard et al). 1993;126:956-62 (Prog. cardi.)
 Godeau P (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
 Goerke M (see Dissmann et al). 1993;126:832-9
 Goldbaum AF (see Louie et al). 1993;126:514-20
 Goldberg NM (see Vasilomanolakis and Goldberg). 1993;126:1016-7 (Brief comm.)
 Goldberg SJ (see Lax et al). 1993;126:415-8
 Goldberger J, Kruse J, Ehler FA, Kadish A. Temporary transvenous pacemaker placement: What criteria constitute an adequate pacing site? 1993;126:488-93 (Brief comm.)
 Goldhaber SZ (see Simons et al). 1993;126:641-7 (Curriculum cardi.)
 Goldstein S (see Gheorghiadu et al). 1993;126:271-8
 Golub RJ, McNulty CM, McClellan JR, St Laurent L, Prior MW. Usefulness of transesophageal Doppler echocardiography in the surgical drainage of a loculated purulent pericardial effusion. 1993;126:724-7 (Brief comm.)
 Gore JM (see Becker et al). 1993;126:11-4
 — (see Becker et al). 1993;126:750-2 (Brief comm.)
 Gorodetskaya EA (see Medvedev and Gorodetskaya). 1993;126:764-9 (Symposium)
 Goswami KC, Shrivastava S, Das G, Dev V. Percutaneous balloon mitral valvuloplasty: analysis of echocardiographic and other variables related to outcome. 1993;126:1147-51

- , Saxena A, Dev V. Echocardiographic diagnosis of total anomalous pulmonary venous connection. 1993;126:433-40
— (see Dev et al). 1993;126:930-6 (Curriculum cardi.)
- Gotsman MS (see Zahger et al). 1993;126:999-1000 (Brief comm.)
- Gottlieb SS (see Schwengel et al). 1993;126:1182-6
- Götzsche O, Sihm I, Lund S, Schmitz O. Abnormal changes in transmittal flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study. 1993;126:1417-26
- Gourgon R (see Steg et al). 1993;126:1477-80 (Brief comm.)
- Graboyes TB (see Blatt et al). 1993;126:268-9 (Editorial)
- Graettinger WF (see Neutel et al). 1993;126:924-9
— (see Ueshima et al). 1993;126:260-1 (Brief comm.)
- Granato JE (see Wolz et al). 1993;126:246-8 (Brief comm.)
- Grassi R (see Malatino et al). 1993;126:700-2 (Brief comm.)
- Grech E, Morrison L, Weir I, Harley A. Acute pulmonary edema due to pulmonary venous obstruction by left atrial dissection. 1993;126:734-5 (Brief comm.)
- Green CE (see Miller et al). 1993;126:1235-8 (Brief comm.)
- Greengart A (see Feld et al). 1993;126:31-8
- Grentzinger A (see Marie et al). 1993;126:571-7
- Gribisi JE (see Nerantzis et al). 1993;126:452-3 (Brief comm.)
- Griffith BP (see Murali et al). 1993;126:896-904
- Grifka RG, Vick GW III, O'Laughlin MP, Myers TJ, Morrow WR, Nihill MR, Kearney DL, Mullins CE. Balloon expandable intravascular stents: aortic implantation and late further dilation in growing minipigs. 1993;126:979-84 (Prog. cardi.)
- Grill HP (see Wolz et al). 1993;126:246-8 (Brief comm.)
- Grimson R (see Vlay et al). 1993;126:807-15
- Grogan M, Christian TF, Miller TD, Bailey KR, Gibbons RJ. The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy. 1993;126:327-32
- Grossman M (see Arora et al). 1993;126:225-8 (Brief comm.)
- Groundstroem KWE, Hoffman P, Sutherland GR. Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transthoracic echocardiography. 1993;126:702-5 (Brief comm.)
- Grünwald K (see Schwaiger et al). 1993;126:406-10
- Grzeszczak M (see Cyran et al). 1993;126:1024-9 (Brief comm.)
- Guerci AD (see Sugarman et al). 1993;126:494-9 (Editorial)
- Guerra OR, Janowitz WR, Agatston AS, Mantelle LL, Viamonte M Jr. Coronary artery diameter and coronary risk factors: a study with ultrafast computed tomography. 1993;126:600-6
- Guffanti S (see Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
- H**
- Haas GJ (see Triposkiadis et al). 1993;126:1175-81
- Haas JH (see Cyran et al). 1993;126:1024-9 (Brief comm.)
- Haase J, van der Linden MMJM, Di Mario C, van der Giessen WJ, Foley DP, Serruys PW. Can the same edge-detection algorithm be applied to on-line and off-line analysis systems? Validation of a new cinefilm-based geometric coronary measurement software. 1993;126:312-21
— (see Escaned et al). 1993;126:1326-33
- Habbab MA, Amro AA. Nonsurgical (embolization) treatment of the coronary-internal mammary flow diversion phenomenon. 1993;126:456-8 (Brief comm.)
- Habbal B (see Wagshal et al). 1993;126:1142-6
- Haberman RJ, Rials SJ, Stohler JL, Marinchak RA, Kowey PR. Evidence for a reexcitability gap in man after treatment with type I antiarrhythmic drugs. 1993;126:1121-6
- Haft JI, Al-Zarka AM. Comparison of the natural history of irregular and smooth coronary lesions: insights into the pathogenesis, progression, and prognosis of coronary atherosclerosis. 1993;126:551-61
— (see Tabbalat and Haft). 1993;126:95-103
- Hageman GR, Gantenberg NS. Attenuation of baroreflex changes in cardiac sympathetic efferent activities during acute myocardial ischemia. 1993;126:347-51
- Hamer HPM (see Posma et al). 1993;126:1491-2 (Letter)
- Hanawa H (see Kodama et al). 1993;126:1385-92
- Handa S (see Sadanaga et al). 1993;126:114-21
- Handlin LR, Kindred LH, Beauchamp GD, Vacek JL, Rowe SK. Reversible left ventricular dysfunction after subarachnoid hemorrhage. 1993;126:235-40 (Brief comm.)
- Hanrath P (see Heintz et al). 1993;126:987-9 (Brief comm.)
- Hansen PR. Endothelial dysfunction after reperfusion. 1993;126:1489 (Letter)
- Harasaki H (see Tominaga et al). 1993;126:1049-58
- Hardesty RL (see Murali et al). 1993;126:896-904
- Hardigan K (see Heuser et al). 1993;126:213-8 (Prog. cardi.)
- Hariman RJ (see Louie et al). 1993;126:514-20
- Harley A (see Grech et al). 1993;126:734-5 (Brief comm.)
- Hartnell GG, Sassower M, Finn JP. Selective presaturation magnetic resonance angiography: new method for detecting intracardiac shunts. 1993;126:1032-4 (Brief comm.)
- Hartzler GO (see Kahn and Hartzler). 1993;126:463-6 (Brief comm.)
- Hasfeld M (see Schwammenthal et al). 1993;126:221-5 (Brief comm.)
- Hashimoto H (see Abe et al). 1993;126:279-85
- Haude M, Erbel R, Issa H, Straub U, Rupprecht HJ, Treese N, Meyer J. Subacute thrombotic complications after intracoronary implantation of Palmaz-Schatz stents. 1993;126:15-22
- Hawke MW (see Rubin et al). 1993;126:233-4 (Brief comm.)
— (see Schwengel et al). 1993;126:1182-6
- Hayakawa H (see Seino et al). 1993;126:887-95
- Hayashi T (see Terasaki et al). 1993;126:399-405
- Hayoz D (see Drexler et al). 1993;126:761-3 (Symposium)
- Hays L (see Houston and Hays). 1993;126:918-23
- Haywood LJ (see Norris et al). 1993;126:1312-9
- Heintz B, Dörr, Gillesen T, Walkenhorst F, Krebs W, Hanrath P, Sieberth H-G. Do arterial endothelin 1 levels affect local arterial stiffness? 1993;126:987-9 (Brief comm.)
- Held P (see Sigurdsson et al). 1993;126:1068-76
- Heller GV, Dweik RB, Barbour MM, Garber CE, Cloutier DJ, Messinger DE, Corning JJ. Pretreatment with theophylline does not affect adenosine-induced thallium-201 myocardial imaging. 1993;126:1077-83
- Helmer G (see Boyce et al). 1993;126:716-9 (Brief comm.)
- Hendel RC, Dahlberg ST, Weinstein H, Leppo JA. Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects. 1993;126:856-62
— (see Villegas et al). 1993;126:103-7
- Henjum S (see Boyce et al). 1993;126:716-9 (Brief comm.)
- Henriksen O (see Söndergaard et al). 1993;126:1156-64
- Heo J (see Iskandrian et al). 1993;126:1199-203 (Prog. cardi.)
- Hermans WR (see Escaned et al). 1993;126:1326-33
- Herre J (see Newman et al). 1993;126:1106-12
- Hess OM (see Vassalli et al). 1993;126:1091-8
- Hesselink JR (see Simpson et al). 1993;126:1165-74
- Heuser RR, Strumpf RK, Hardigan K. Use of Doppler guide wire for intraluminal diagnosis to facilitate coronary intervention. 1993;126:213-8 (Prog. cardi.)
— (see Strumpf et al). 1993;126:1204-10 (Prog. cardi.)
- Hibberd M (see Coles et al). 1993;126:815-9
- Hibner CS (see Norris et al). 1993;126:676-85 (Prog. cardi.)
- Hildebrandt P (see Söndergaard et al). 1993;126:1156-64
- Hillege HL (see Tuininga et al). 1993;126:359-67
— (see Wiesfeld et al). 1993;126:1008-11 (Brief comm.)
- Hillis LD (see Taylor et al). 1993;126:1462-3 (Brief comm.)
- Hirai T, Fujita M, Yoshida N, Yamanishi K, Inoko M, Miwa K. Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction. 1993;126:827-31
- Hirata Y (see Mitaka et al). 1993;126:466-8 (Brief comm.)
- Hodgson JM (see Nair et al). 1993;126:507-14
- Hoffman P (see Groundstroem et al). 1993;126:702-5 (Brief comm.)
- Hofmann T (see Konstantinides et al). 1993;126:909-17
- Hoit BD (see Corey et al). 1993;126:1469-73 (Brief comm.)
- Hoki N (see Yamada et al). 1993;126:626-31
- Hollander G (see Feld et al). 1993;126:31-8
- Hollman J (see Tominaga et al). 1993;126:1049-58
- Homma S (see Sherman et al). 1993;126:254-6 (Brief comm.)
- Hopkins AP (see Black et al). 1993;126:375-81
- Horimoto M, Igarashi K, Takenaka T, Batra S. Pulmonary infundibular stenosis, coronary artery disease, and aortic regurgitation caused by mediastinal radiation. 1993;126:1002-5 (Brief comm.)
- Horio T, Shimada K-e, Kohno M, Yoshimura T, Kawarabayashi T, Yasunari K, Murakawa K-i, Yokokawa K, Ikeda M, Fukui T, Takeda T. Serial changes in atrial and brain natriuretic peptides in patients with acute myocardial infarction treated with early coronary angioplasty. 1993;126:293-9

- Horowitz LF (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
 Horowitz MD, Zager W, Bilsker M, Perryman RA, Lowery MH. Cor triatriatum in adults. 1993;126:472-3 (Brief comm.)
 Hosono H (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
 — (see Kodama et al). 1993;126:1385-92
 Houston MC, Hays L. Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension. 1993;126:918-23
 Huang SKS (see Emlein et al). 1993;126:1084-90
 — (see Pires and Huang). 1993;126:189-200 (Curriculum cardiol.)
 — (see Wagshal et al). 1993;126:1142-6
 Hug G (see Blankenship et al). 1993;126:989-95 (Brief comm.)
 Hughes M (see Jain et al). 1993;126:543-51
 Huikuri HV (see Chakko et al). 1993;126:1364-72
 Hung J-S (see Yeh et al). 1993;126:474-5 (Brief comm.)
 Hunter GJ (see Gill et al). 1993;126:390-8
 Hwang J-J (see Ma et al). 1993;126:1227-9 (Brief comm.)
- I**
- Iannone LA, Toon RS, Rayl KL. Percutaneous transluminal angioplasty of the innominate artery combined with carotid endarterectomy. 1993;126:1466-9 (Brief comm.)
 — (see Crowe and Iannone). 1993;126:229-33 (Brief comm.)
 Igarashi K (see Horimoto et al). 1993;126:1002-5 (Brief comm.)
 Igarashi S (see Kaneko et al). 1993;126:248-9 (Brief comm.)
 Ikari Y (see Abe et al). 1993;126:279-85
 Ikeda J, Furiyama M, Sakuma T, Katoh A, Sugi M, Takita T, Maehara K, Takishima T, Shirato K. Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise. 1993;126:130-5
 Ikeda M (see Horio et al). 1993;126:293-9
 Ikeda U (see Seino et al). 1993;126:249-51 (Brief comm.)
 — (see Takahashi et al). 1993;126:1225-7 (Brief comm.)
 Inagaki H (see Iwase et al). 1993;126:419-26
 Inoko M (see Hirai et al). 1993;126:827-31
 Inomata T (see Kodama et al). 1993;126:1385-92
 Inoue H (see Murakawa et al). 1993;126:108-14
 — (see Usui et al). 1993;126:177-83
 — (see Yamashita et al). 1993;126:719-22 (Brief comm.)
 — (see Yamashita et al). 1993;126:742-4 (Brief comm.)
 Iqbal A (see Kishon et al). 1993;126:667-75 (Prog. cardiol.)
 Ishijima M (see Takahira et al). 1993;126:995-7 (Brief comm.)
 Ishizaka N (see Abe et al). 1993;126:279-85
 Ishizaka Y (see Abe et al). 1993;126:279-85
 Iskandrian AE, Kegel JG, Tecce MA, Wasserleben V, Cave V, Heo J. Simultaneous assessment of left ventricular perfusion and function with technetium-99m sestamibi after coronary artery bypass grafting. 1993;126:1199-203 (Prog. cardiol.)
 Iskandrian AS (see Bhadha et al). 1993;126:1194-8 (Curriculum cardiol.)
 Isner JM (see Losordo et al). 1993;126:168-76
 — (see Mosseri et al). 1993;126:338-46
 Israel DH (see Sharma et al). 1993;126:39-47
 Israel W (see Mera et al). 1993;126:1224-5 (Brief comm.)
 Issa H (see Haude et al). 1993;126:15-22
 Isshiki T (see Abe et al). 1993;126:279-85
 Iwakura K (see Yamada et al). 1993;126:626-31
 Iwanaga S (see Sadanaga et al). 1993;126:114-21
 Iwasawa K (see Yamashita et al). 1993;126:719-22 (Brief comm.)
 Iwase M, Nagata K, Izawa H, Yokota M, Kamihara S, Inagaki H, Saito H. Age-related changes in left and right ventricular filling velocity profiles and their relationship in normal subjects. 1993;126:419-26
 Izawa H (see Iwase et al). 1993;126:419-26
 Izumi T (see Kodama et al). 1993;126:1385-92
- J**
- Jacobs LE (see Movsowitz et al). 1993;126:745-7 (Brief comm.)
 — (see Movsowitz et al). 1993;126:1011-3 (Brief comm.)
 — (see Movsowitz et al). 1993;126:1031-2 (Brief comm.)
 Jaffrani NA, Ehrenpreis S, Laddu A, Somberg J. Therapeutic approach to unstable angina: nitroglycerin, heparin, and combined therapy. 1993;126:1239-42 (Editorial)
 Jafri S (see Gheorghiade et al). 1993;126:271-8
 Jain A (see Norris et al). 1993;126:676-85 (Prog. cardiol.)
 Jain P, Hughes M, Korlipara G, Lillis O, Dervan JP, Cohn PF. The effects of chronic oral milrinone therapy on early postinfarction left ventricular remodeling. 1993;126:543-51
 Jain SP, White CJ, Ventura HO. De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angioscopy. 1993;126:453-6 (Brief comm.)
 Jain Y (see Saxena et al). 1993;126:1494 (Letter)
 James TN (see Terasaki et al). 1993;126:399-405
 Janowitz WR (see Guerra et al). 1993;126:600-6
 Jefferson KK (see Deshmukh et al). 1993;126:475-7 (Brief comm.)
 Jin SH (see Yoon et al). 1993;126:1014-5 (Brief comm.)
 Johnson MC, Strauss AW, Canter CE, Spray TL. Balloon dilation of aortic coarctation. 1993;126:1493 (Letter reply)
 Johnston CI, Fabris B, Yoshida K. The cardiac renin-angiotensin system in heart failure. 1993;126:756-60 (Symposium)
 Jonas EA (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
 Jondeau G (see Katz et al). 1993;126:141-6
 Juillière Y (see Danchin et al). 1993;126:594-600
 — (see Marie et al). 1993;126:571-7
 Jung W (see Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)
 Jureidini SB (see Appleton et al). 1993;126:1494 (Letter reply)
 Just H (see Dee et al). 1993;126:707-10 (Brief comm.)
 — (see Drexler et al). 1993;126:761-3 (Symposium)
 — (see Konstantinides et al). 1993;126:909-17
- K**
- Kadish A (see Goldberger et al). 1993;126:488-93 (Brief comm.)
 Kahn JK. Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting. 1993;126:561-4
 —, Hartzler GO. Reversal of refractory hypotension with intracoronary epinephrine during coronary angioplasty. 1993;126:463-6 (Brief comm.)
 Kajani M (see Movsowitz et al). 1993;126:1011-3 (Brief comm.)
 Kambic H (see Tominaga et al). 1993;126:1049-58
 Kamean JL (see Sharma et al). 1993;126:39-47
 Kamihara S (see Iwase et al). 1993;126:419-26
 Kaneko K, Igarashi S, Miyatake T, Tsuji S. Hypertrophic cardiomyopathy and increased number of CAG repeats in the androgen receptor gene. 1993;126:248-9 (Brief comm.)
 Kaplan JD (see Fitzgerald et al). 1993;126:1000-2 (Brief comm.)
 Karbenn U (see Schwammenthal et al). 1993;126:221-5 (Brief comm.)
 Karcher G (see Marie et al). 1993;126:571-7
 Karim MA, Bach RG, Dressler F, Caracciolo E, Donohue TJ, Kern MJ. Purulent pericarditis caused by group B streptococcus with pericardial tamponade. 1993;126:727-31 (Brief comm.)
 Karkal SS, Kramer-Fox R, Devereaux RB. Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy. 1993;126:242-6 (Brief comm.)
 Kashida M (see Abe et al). 1993;126:279-85
 Kashiwagi M (see Seino et al). 1993;126:887-95
 Kasper W (see Dee et al). 1993;126:707-10 (Brief comm.)
 — (see Konstantinides et al). 1993;126:909-17
 Kassiss E (see Søndergaard et al). 1993;126:1156-64
 Kataoka H, Tanigawa T. Vasovagal syncope elicited by extracorporeal shock wave lithotripsy. 1993;126:258-9 (Brief comm.)
 Katoh A (see Ikeda et al). 1993;126:130-5
 Katoh K (see Kodama et al). 1993;126:1385-92
 Katz J (see Arora et al). 1993;126:225-8 (Brief comm.)
 Katz NM (see Miller et al). 1993;126:1235-8 (Brief comm.)
 Katz SD, Marantz PR, Biasucci L, Jondeau G, Lee K, Brennan C, LeJemtel TH. Low incidence of stroke in ambulatory patients with heart failure: a prospective study. 1993;126:141-6
 Kaufman B (see Zahger et al). 1993;126:999-1000 (Brief comm.)
 Kaul UA, Singh B, Tyagi S, Bhargava M, Arora R, Khalilullah M. Long-term results after balloon pulmonary valvuloplasty in adults. 1993;126:1152-5
 Kavey R-EW (see Bitar et al). 1993;126:1480-2 (Brief comm.)
 Kawaguchi K (see Seino et al). 1993;126:249-51 (Brief comm.)
 Kawaguchi T (see Ueshima et al). 1993;126:260-1 (Brief comm.)
 — (see Ueshima et al). 1993;126:1021-4 (Brief comm.)
 Kavarabayashi T (see Horio et al). 1993;126:293-9
 Kearney DL (see Denfield et al). 1993;126:382-9
 — (see Grifka et al). 1993;126:979-84 (Prog. cardiol.)
 Kegel JG (see Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)
 Keirns C (see Vargas-Barron et al). 1993;126:426-32
 Kenny D (see Losordo et al). 1993;126:168-76

- Kereiakes DJ (see Ohman et al). 1993;126:819-26
Kerin NZ (see Martyn et al). 1993;126:201-5 (Curriculum cardi.)
Kern MJ (see Karim et al). 1993;126:727-31 (Brief comm.)
— (see Labovitz et al). 1993;126:1456-61 (Prog. cardi.)
Kernoff R (see Stadius et al). 1993;126:47-56
Kessler KM, Willens HJ, Mallon SM. Diastolic left ventricular dysfunction leading to severe reversible pulmonary hypertension. 1993;126:234-5 (Brief comm.)
— (see Chakko et al). 1993;126:1364-72
Khalilullah M (see Kaul et al). 1993;126:1152-5
Khan S (see Nichols et al). 1993;126:285-92
Khosla S (see Deshmukh et al). 1993;126:475-7 (Brief comm.)
Kiemeneij F, Laarmann GJ, van der Wieden R, Suwarganda J. Emergency coronary stenting with the Palmaz-Schatz stent for failed transluminal coronary angioplasty: results of a learning phase. 1993;126:23-31
Kikuchi Y (see Noma et al). 1993;126:459-61 (Brief comm.)
Kim CH (see Lee et al). 1993;126:1401-7
Kim SS (see Yoon et al). 1993;126:1014-5 (Brief comm.)
Kim SW (see Fraiss et al). 1993;126:1219-22 (Brief comm.)
Kindred LH (see Handlin et al). 1993;126:235-40 (Brief comm.)
King RD (see Krause et al). 1993;126:1134-41
King SB III (see Serruys et al). 1993;126:1243-67 (Editorial)
Kinoshita M (see Yamaoka et al). 1993;126:1372-9
Kirkeide RL (see Serruys et al). 1993;126:1243-67 (Editorial)
Kishon Y, Iqbal A, Oh JK, Gersh BJ, Freeman WK, Seward JB, Tajik AJ. Evolution of echocardiographic modalities in detection of postmyocardial infarction ventricular septal defect and papillary muscle rupture: study of 62 patients. 1993;126:667-75 (Prog. cardi.)
Klapholz L (see Zahger et al). 1993;126:999-1000 (Brief comm.)
Klein LS (see Krause et al). 1993;126:1134-41
Kloner RA (see Li and Kloner). 1993;126:1293-8
— (see Zheng et al). 1993;126:1474-7 (Brief comm.)
Kluger J (see Ujhelyi et al). 1993;126:352-9
Koch JM (see Sassower et al). 1993;126:444-50 (Prog. cardi.)
Kodama M, Hanawa H, Zhang S, Saeki M, Koyama S, Hosono H, Miyakita Y, Katoh K, Inomata T, Izumi T, Shibata A. FK506 therapy of experimental autoimmune myocarditis after onset of the disease. 1993;126:1385-92
Kodama Y, Yokota M, Miyahara T, Matsunami T, Sobue T, Saito H. Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake. 1993;126:587-93
Koh KK (see Yoon et al). 1993;126:1014-5 (Brief comm.)
Kohn M (see Horio et al). 1993;126:293-9
Kolettis TM, Saxena A, Krol RB, Saksena S. Submammary implantation of a cardioverter-defibrillator with a nonthoracotomy lead system. 1993;126:1222-3 (Brief comm.)
Kondoh N (see Yamada et al). 1993;126:626-31
Konstantinides S, Kasper W, Geibel A, Hofmann T, Köster W, Just H. Detection of left-to-right shunt in atrial septal defect by negative contrast echocardiography: a comparison of transthoracic and transesophageal approach. 1993;126:909-17
— (see Dee et al). 1993;126:707-10 (Brief comm.)
Konstantopoulos EK (see Nerantzis et al). 1993;126:452-3 (Brief comm.)
Kontozoglou T (see Tentolouris et al). 1993;126:904-9
Korlipara G (see Jain et al). 1993;126:543-51
Kormos RL (see Murali et al). 1993;126:896-904
Köster W (see Konstantinides et al). 1993;126:909-17
Kostis JB (see Moreyra et al). 1993;126:1491 (Letter reply)
Kotler MN. Systemic embolization during TTE. 1993;126:1492 (Letter)
— (see Movsowitz et al). 1993;126:745-7 (Brief comm.)
— (see Movsowitz et al). 1993;126:1011-3 (Brief comm.)
— (see Movsowitz et al). 1993;126:1031-2 (Brief comm.)
Kotoh K (see Yamada et al). 1993;126:626-31
Koudstaal PJ (see Michiels et al). 1993;126:1495-6 (Letter)
Kowey PR (see Haberman et al). 1993;126:1121-6
Koyama S (see Kodama et al). 1993;126:1385-92
Koyanagi S (see Fukui et al). 1993;126:1305-11
Kraft CD (see Raitt et al). 1993;126:946-55 (Curriculum cardi.)
Kraher RL (see Louie et al). 1993;126:514-20
Kramer PH (see Vacek et al). 1993;126:521-5
Kramer-Fox R (see Karkal et al). 1993;126:242-6 (Brief comm.)
Krause PC, Rardon DP, Miles WM, Klein LS, Mahomed Y, King RD, Zipes DP. Characteristics of Ca^{2+} -activated K^{+} channels isolated from the left ventricle of a patient with idiopathic long QT syndrome. 1993;126:1134-41
Krayenbuehl HP (see Vassalli et al). 1993;126:1091-8
Krebs W (see Heintz et al). 1993;126:987-9 (Brief comm.)
Kreuzer E (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
Kreuzer H (see Werner et al). 1993;126:1408-16
Krishnan R, Lu J, Zhu YY, Dae MW, Botvinick EH. Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context. 1993;126:578-86
Krogmann ON (see Vassalli et al). 1993;126:1091-8
Krol RB (see Kolettis et al). 1993;126:1222-3 (Brief comm.)
Kronzon I (see Bernstein et al). 1993;126:251-4 (Brief comm.)
Kruse J (see Goldberger et al). 1993;126:488-93 (Brief comm.)
Kuan P (see Ma et al). 1993;126:1227-9 (Brief comm.)
Kulkarni PK (see Miller et al). 1993;126:1235-8 (Brief comm.)
Kumagai K (see Yamada et al). 1993;126:626-31
Kumar AK (see Moreyra et al). 1993;126:1491 (Letter reply)
Kumar RK (see Saxena et al). 1993;126:1494 (Letter)
Kuo T-T (see Yamashita et al). 1993;126:742-4 (Brief comm.)
Kurokawa K (see Abe et al). 1993;126:279-85
Kusano Y (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
Kveselis DA (see Bitar et al). 1993;126:1480-2 (Brief comm.)
Kwan C-M (see Lin et al). 1993;126:735-7 (Brief comm.)

L

- Laarmann GJ (see Kiemeneij et al). 1993;126:23-31
Labouladine I (see Arnal et al). 1993;126:775-81 (Symposium)
Labovitz AJ, Anthonis DM, Cravens TL, Kern MJ. Validation of volumetric flow measurements by means of Doppler-tipped coronary angioplasty guide wire. 1993;126:1456-61 (Prog. cardi.)
— (see Richard et al). 1993;126:710-2 (Brief comm.)
— (see Takase et al). 1993;126:1099-106
Lacy CR (see Moreyra et al). 1993;126:1491 (Letter reply)
Laddu A (see Jaffrani et al). 1993;126:1239-42 (Editorial)
Lahiri A (see Senior et al). 1993;126:536-42
Laks H (see Ardehali et al). 1993;126:1498-502 (Editorial)
Lambert F (see Lecarpentier et al). 1993;126:770-5 (Symposium)
Lamm C, Dohnal M, Serruys PW, Emanuelsson H. High-fidelity translesional pressure gradients during percutaneous transluminal coronary angioplasty: correlation with quantitative coronary angiography. 1993;126:66-75
Lampert S (see Blatt et al). 1993;126:268-9 (Editorial)
Larcher C (see Schwaiger et al). 1993;126:406-10
Lax D, Eicher M, Goldberg SJ. Effects of hydration on mitral valve prolapse. 1993;126:415-8
Lecarpentier Y, Pery N, Coirault C, Scalbert E, Desche P, Suard I, Lambert F, Chemla D. Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy. 1993;126:770-5 (Symposium)
Lechat P, Garnham SP, Desche P, Bounhoure J-P. Efficacy and acceptability of perindopril in mild to moderate chronic congestive heart failure. 1993;126:798-806 (Symposium)
Lee D (see Bashour et al). 1993;126:219-21 (Brief comm.)
Lee K (see Katz et al). 1993;126:141-6
— (see Ohman et al). 1993;126:819-26
Lee LCL (see Black et al). 1993;126:375-81
— (see Leung et al). 1993;126:732-4 (Brief comm.)
Lee MM, Park SW, Kim CH, Sohn DW, Oh BH, Park YB, Choi YS, Seo JD, Lee YW. Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm. 1993;126:1401-7
Lee YW (see Lee et al). 1993;126:1401-7
Lees KR (see Reid et al). 1993;126:794-7 (Symposium)
Lefer AM, Tsao PS, Ma X-I. Endothelial dysfunction after reperfusion. 1993;126:1489 (Letter reply)
LeJemtel TH (see Katz et al). 1993;126:141-6
Leonardi C (see Malatino et al). 1993;126:700-2 (Brief comm.)
Leppo JA (see Hendel et al). 1993;126:856-62
— (see Senior et al). 1993;126:536-42
— (see Villegas et al). 1993;126:103-7
Lesh MD. Interventional electrophysiology—state-of-the-art 1993. 1993;126:686-98 (Prog. cardi.)
— (see Chien and Lesh). 1993;126:712-5 (Brief comm.)
Letac B (see Chan et al). 1993;126:985-7 (Brief comm.)
Leung DY, Seah P-W, Lee LCL, Cranney GB, Walsh WF. Embolic chondrosarcoma: an unusual cause of pulmonary embolism. 1993;126:732-4 (Brief comm.)
Leung TK (see Bonan et al). 1993;126:1334-40
Levine DM (see Sugarman et al). 1993;126:494-9 (Editorial)

- Lewin CS (see Wanner and Lewin). 1993;126:1211-3 (Brief comm.)
 Lewis B (see Richard et al). 1993;126:710-2 (Brief comm.)
 Li Y, Kloner RA. Adenosine deaminase inhibition is not cardio-protective in the rat. 1993;126:1293-8
 Lichstein E (see Feld et al). 1993;126:31-8
 Lie KI (see Posma et al). 1993;126:1491-2 (Letter)
 — (see Tuininga et al). 1993;126:359-67
 — (see Wiesfeld et al). 1993;126:1008-11 (Brief comm.)
 Liebermann RA (see Case et al). 1993;126:715-6 (Brief comm.)
 Lien W-P (see Ma et al). 1993;126:1227-9 (Brief comm.)
 Lillis O (see Jain et al). 1993;126:543-51
 Limm W (see Watanabe et al). 1993;126:840-6
 Lin J-L (see Ma et al). 1993;126:1227-9 (Brief comm.)
 Lin L-J, Chen J-H, Yang Y-J, Tsai L-M, Kwan C-M, Teng J-K, Luo C-J. Aneurysm of the atrioventricular septum between the left ventricle and right atrium without septal defect. 1993;126:735-7 (Brief comm.)
 Linderer T (see Dissmann et al). 1993;126:832-9
 Lindsay J Jr. Aorticocaval fistula: a rare complication of aortic dissection. 1993;126:441-3 (Curriculum cardi.)
 Lindvig K (see S ndergaard et al). 1993;126:1156-64
 Liu XJ (see Senior et al). 1993;126:536-42
 Losordo DW, Pastore JO, Coletta D, Kenny D, Isner JM. Limitations of color flow Doppler imaging in the quantification of valvular regurgitation: velocity of regurgitant jet, rather than volume, determines size of color Doppler image. 1993;126:168-76
 Lotan C (see Zaher et al). 1993;126:999-1000 (Brief comm.)
 Louie EK, Hariman RJ, Krahmer RL, Goldbaum AF, Prechel DP, Ferguson JL. Heterogeneity of reperfusion after reversible regional myocardial ischemia in a canine model. 1993;126:514-20
 Love T (see Coles et al). 1993;126:815-9
 Lowery MH (see Horowitz et al). 1993;126:472-3 (Brief comm.)
 Lu J (see Krishnan et al). 1993;126:578-86
 L deritz B (see Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)
 Lund S (see G tzsche et al). 1993;126:1417-26
 Luo C-J (see Lin et al). 1993;126:735-7 (Brief comm.)
 Lyons J (see Schwaiger et al). 1993;126:406-10
- M**
- Ma MH-M, Hwang J-J, Lin J-L, Shyu K-G, Chen W-J, Kuan P, Lien W-P. Detection of major aortopulmonary collateral arteries by transesophageal echocardiography in pulmonary atresia with ventricular septal defect. 1993;126:1227-9 (Brief comm.)
 Ma X-I (see Lefer et al). 1993;126:1489 (Letter reply)
 MacAlpin RN. CNS-mediated coronary spasm. 1993;126:1490-1 (Letter reply)
 MacFadyen RJ (see Reid et al). 1993;126:794-7 (Symposium)
 Maciel BC (see Simpson et al). 1993;126:1165-74
 Maehara K (see Ikeda et al). 1993;126:130-5
 Maemura T (see Yanase et al). 1993;126:747-9 (Brief comm.)
 Magrini A (see Galante et al). 1993;126:1491 (Letter)
 Magun AM (see Arora et al). 1993;126:225-8 (Brief comm.)
 Mahomed Y (see Krause et al). 1993;126:1134-41
 Maistre G (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
 Makita K (see Mitaka et al). 1993;126:466-8 (Brief comm.)
 Makowski S (see Steg et al). 1993;126:1477-80 (Brief comm.)
 Malatino LS, Grassi R, Stancanelli B, Polizzi G, Leonardi C, Tamburino C, Tamburino G. Release of immunoreactive endothelin from the heart during percutaneous transluminal coronary angioplasty. 1993;126:700-2 (Brief comm.)
 Mallon SM (see Kessler et al). 1993;126:234-5 (Brief comm.)
 Maloney A (see Patel et al). 1993;126:184-8
 Mancini GBJ (see Cleary et al). 1993;126:57-65
 Maniet AR (see Fail et al). 1993;126:1059-67
 Mansour NN (see Bashour et al). 1993;126:219-21 (Brief comm.)
 Manspeaker P (see Senior et al). 1993;126:536-42
 Mantelle LL (see Guerra et al). 1993;126:600-6
 Manz M (see Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)
 Manzo KM (see Sassower et al). 1993;126:444-50 (Prog. cardi.)
 Marantz PR (see Katz et al). 1993;126:141-6
 Marboe C (see Sherman et al). 1993;126:254-6 (Brief comm.)
 Marchionni N, Moschi G, Di Bari M, Burgisser C, Fumagalli S, Boncinelli L, Tarantini F, Ferrucci L. Acute and long-term effects of flosequinan in patients with chronic cardiac failure. 1993;126:147-54
 Marchlinski FE (see Bhadha et al). 1993;126:1194-8 (Curriculum cardi.)
 Marcus B, Wong PC. Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation. 1993;126:1482-4 (Brief comm.)
 Margaris NG (see Nerantzis et al). 1993;126:452-3 (Brief comm.)
 Marie PY, Danchin N, Karcher G, Grentzinger A, Juilli re Y, Olivier P, Buffet P, Anconina J, Beurrier D, Cherrier F, Bertrand A. Usefulness of exercise SPECT-thallium to detect asymptomatic stenosis in patients who had angina before coronary angioplasty. 1993;126:571-7
 Marinchak RA (see Haberman et al). 1993;126:1121-6
 Markel ML (see Corey et al). 1993;126:1469-73 (Brief comm.)
 Marks SM (see Wolz et al). 1993;126:246-8 (Brief comm.)
 Martyn R, Somberg JC, Kerin NZ. Proarrhythmia of nonantiarrhythmic drugs. 1993;126:201-5 (Curriculum cardi.)
 Mason DT. The birth and progress of the first heart journal. 1993;126:503-6 (Editor's page)
 Masuda T (see Miyao et al). 1993;126:1299-304
 Materson BJ (see Chakko et al). 1993;126:1364-72
 Matsunami T (see Kodama et al). 1993;126:587-93
 Maurer G (see Siegel et al). 1993;126:872-8
 Mazzara D (see Pupita et al). 1993;126:86-94
 McAlpine HM (see Bridges et al). 1993;126:451-2 (Brief comm.)
 McClellan JR (see Golub et al). 1993;126:724-7 (Brief comm.)
 McEwen B (see Fraiss et al). 1993;126:1219-22 (Brief comm.)
 McGovern JJ (see Teske et al). 1993;126:1233-5 (Brief comm.)
 McKay RG (see Fram et al). 1993;126:969-78 (Prog. cardi.)
 McLaren M (see Bridges et al). 1993;126:451-2 (Brief comm.)
 McLay JS, McMurray JJ, Bridges AB, Fraser CG, Struthers AD. Acute effects of captopril on the renal actions of furosemide in patients with chronic heart failure. 1993;126:879-86
 McMurray JJ (see McLay et al). 1993;126:879-86
 McNamara JJ (see Watanabe et al). 1993;126:840-6
 McNulty CM (see Golub et al). 1993;126:724-7 (Brief comm.)
 McRitchie RJ (see Twidale et al). 1993;126:122-9
 McSherry BA (see Villegas et al). 1993;126:103-7
 Meaney E (see Samanigo et al). 1993;126:1005-6 (Brief comm.)
 Medvedev OS, Gorodetskaya EA. Systemic and regional hemodynamic effects of perindopril in experimental heart failure. 1993;126:764-9 (Symposium)
 Mehta JL (see Nichols et al). 1993;126:285-92
 — (see Yang et al). 1993;126:1287-92
 Mera F, Patt J, Israel W, Dubin JD. Atrial septal aneurysm simulating a left atrial mass diagnosed by transesophageal echocardiography. 1993;126:1224-5 (Brief comm.)
 Messinger DE (see Heller et al). 1993;126:1077-83
 Meyer G (see Steg et al). 1993;126:1477-80 (Brief comm.)
 Meyer J (see Haude et al). 1993;126:15-22
 Michael L (see Denfield et al). 1993;126:382-9
 Michaelides A, Ryan JM, VanFossen D, Pozderac R, Boudoulas H. Exercise-induced QRS prolongation in patients with coronary artery disease: a marker of myocardial ischemia. 1993;126:1320-5
 Michel J-B (see Arnal et al). 1993;126:775-81 (Symposium)
 Michiels JJ, Koudstaal PJ, Roelandt JRTC, van Vliet HHDM. Arterial thrombosis in thrombocythemia. 1993;126:1495-6 (Letter)
 Midorikawa T (see Takei et al). 1993;126:458-9 (Brief comm.)
 Mikan JF (see Fram et al). 1993;126:969-78 (Prog. cardi.)
 Milei J (see Sanchez et al). 1993;126:1392-1401
 Miles WM (see Krause et al). 1993;126:1134-41
 Miller DC (see Wranne et al). 1993;126:161-7
 Miller DD (see Takase et al). 1993;126:1099-106
 Miller DL, Katz NM, Kulkarni PK, Green CE. Right congenital pericardial defects. 1993;126:1235-8 (Brief comm.)
 Miller TD (see Grogan et al). 1993;126:327-32
 Mimish L (see Ribeiro et al). 1993;126:136-40
 Miorelli M (see Buja et al). 1993;126:1187-93
 Misumi I (see Miyao et al). 1993;126:1299-304
 Mitaka C, Hirata Y, Makita K, Nagura T, Tsunoda Y, Amaha K. Endothelin-1 and atrial natriuretic peptide in septic shock. 1993;126:466-8 (Brief comm.)
 Mitchell JF (see Fram et al). 1993;126:969-78 (Prog. cardi.)
 Mitsunami K (see Yamaoka et al). 1993;126:1372-9
 Mittleman RS (see Wagshal et al). 1993;126:1142-6
 Miwa K (see Hirai et al). 1993;126:827-31
 Miyahara T (see Kodama et al). 1993;126:587-93

- Miyakita Y (see Kodama et al). 1993;126:1385-92
Miyao Y, Yasue H, Ogawa H, Misumi I, Masuda T, Sakamoto T, Morita E. Elevated plasma interleukin-6 levels in patients with acute myocardial infarction. 1993;126:1299-304
Miyatake T (see Kaneko et al). 1993;126:248-9 (Brief comm.)
Mochizuki T (see Yamashita et al). 1993;126:461-3 (Brief comm.)
Moguel R (see Samaniego et al). 1993;126:1005-6 (Brief comm.)
Moises V (see Simpson et al). 1993;126:1165-74
Molitero DJ (see Taylor et al). 1993;126:1462-3 (Brief comm.)
Molloy M (see Foley et al). 1993;126:705-7 (Brief comm.)
Momomura S-i (see Yamashita et al). 1993;126:461-3 (Brief comm.)
Moore NB (see Cleary et al). 1993;126:57-65
Moreyra AE, Lacy CR, Wilson AC, Kumar AK, Kostis JB. Low-nicotine cigarettes on CAD. 1993;126:1491 (Letter reply)
Mori H (see Takahira et al). 1993;126:995-7 (Brief comm.)
Mori M (see Yamaoka et al). 1993;126:1372-9
Morita E (see Miyao et al). 1993;126:1299-304
Morita R (see Yamaoka et al). 1993;126:1372-9
Morris CK (see Ueshima et al). 1993;126:260-1 (Brief comm.)
— (see Ueshima et al). 1993;126:1021-4 (Brief comm.)
Morrison L (see Grech et al). 1993;126:734-5 (Brief comm.)
Morrow WR (see Grifka et al). 1993;126:979-84 (Prog. cardi.)
Mosca R (see Sherman et al). 1993;126:254-6 (Brief comm.)
Moschi G (see Marchionni et al). 1993;126:147-54
Mosseri M, Bartlett-Pandite AN, Wenc K, Isner JM, Weinstein R. Inhibition of endothelium-dependent vasorelaxation by sickle erythrocytes. 1993;126:338-46
Motomiya T (see Yanase et al). 1993;126:747-9 (Brief comm.)
Movsowitz C (see Movsowitz et al). 1993;126:745-7 (Brief comm.)
— (see Movsowitz et al). 1993;126:1011-3 (Brief comm.)
— (see Movsowitz et al). 1993;126:1031-2 (Brief comm.)
Movsowitz HD, David M, Movsowitz C, Kotler MN, Jacobs LE. Penetrating atherosclerotic aortic ulcers: the role of transesophageal echocardiography in diagnosis and clinical management. 1993;126:745-7 (Brief comm.)
—, Jacobs LE, Movsowitz C, Kotler MN, Kajani M. Transesophageal echocardiography in patients with heparin-induced thrombocytopenia and thrombosis. 1993;126:1011-3 (Brief comm.)
—, Movsowitz C, Jacobs LE, Kotler MN. Negative air-contrast test does not exclude the presence of patent foramen ovale by transesophageal echocardiography. 1993;126:1031-2 (Brief comm.)
Mugiishi MM (see Watanabe et al). 1993;126:840-6
Mühlberger V (see Schwaiger et al). 1993;126:406-10
Mulingtapang RF (see Chakko et al). 1993;126:1364-72
Mullins CE (see Grifka et al). 1993;126:979-84 (Prog. cardi.)
Munoz L (see Newman et al). 1993;126:1106-12
Münzel T (see Drexler et al). 1993;126:761-3 (Symposium)
Murakawa K-i (see Horio et al). 1993;126:293-9
Murakawa Y, Ajiki K, Usui M, Yamashita T, Oikawa N, Inoue H. Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus. 1993;126:108-14
— (see Yamashita et al). 1993;126:719-22 (Brief comm.)
— (see Yamashita et al). 1993;126:742-4 (Brief comm.)
Murali S, Kormos RL, Uretsky BF, Schechter D, Reddy PS, Denys BG, Armitage JM, Hardesty RL, Griffith BP. Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience. 1993;126:896-904
Murata K (see Yamaoka et al). 1993;126:1372-9
Musmeci G (see Cuccia et al). 1993;126:468-72 (Brief comm.)
Myerburg RJ (see Chakko et al). 1993;126:1364-72
Myerowitz D (see Triposkiadis et al). 1993;126:1175-81
Myers J (see Ueshima et al). 1993;126:260-1 (Brief comm.)
— (see Ueshima et al). 1993;126:1021-4 (Brief comm.)
Myers TJ (see Grifka et al). 1993;126:979-84 (Prog. cardi.)

N
Nagai R (see Seino et al). 1993;126:249-51 (Brief comm.)
Nagareda T (see Yamada et al). 1993;126:626-31
Nagata K (see Iwase et al). 1993;126:419-26
Nagura T (see Mitaka et al). 1993;126:466-8 (Brief comm.)
Nair RN, Reddy KG, Rasheed Q, Sheehan HM, Hodgson JM. Mechanisms of angiographically successful directional coronary atherectomy: evaluation by intracoronary ultrasound and comparison with transluminal coronary angioplasty. 1993;126:507-14
Naitoh N (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
Naka H (see Abe et al). 1993;126:279-85
Nakamura T (see Seino et al). 1993;126:887-95
Nakamura Y (see Yamaoka et al). 1993;126:1372-9
Nakayama T (see Seino et al). 1993;126:249-51 (Brief comm.)
Narayanan S (see Saxena et al). 1993;126:1494 (Letter)
Nashed A (see Richard et al). 1993;126:710-2 (Brief comm.)
Nataf P (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
Nava A (see Buja et al). 1993;126:1187-93
Nerantzis CE, Konstantopoulos EK, Agapitos EB, Margaris NG, Gribisi JE. Acute occlusion of the left anterior descending coronary artery by shotgun pellets. 1993;126:452-3 (Brief comm.)
Nesto RW (see Sassower et al). 1993;126:444-50 (Prog. cardi.)
Neutel JM, Smith DHG, Graettinger WF, Winer RL, Weber MA. Metabolic characteristics of hypertension: importance of positive family history. 1993;126:924-9
Newman D, Munoz L, Chin M, Franz M, Herre J, Scheinman MM, Botvinick E, Dae M. Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates. 1993;126:1106-12
Nichols WW, Nicolini FA, Khan S, Saldeen TGP, Mehta JL. Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs. 1993;126:285-92
— (see Yang et al). 1993;126:1287-92
Nicolini FA (see Nichols et al). 1993;126:285-92
Nihill MR (see Grifka et al). 1993;126:979-84 (Prog. cardi.)
Niño Jesus Group (see Sanchez-Bayle et al). 1993;126:322-6
Nishikawa J-i (see Usui et al). 1993;126:177-83
Noma M, Kikuchi Y, Yoshimura H, Yamamoto H, Tajimi T. Coronary ectasia in Takayasu's arteritis. 1993;126:459-61 (Brief comm.)
Nomura S (see Yanase et al). 1993;126:747-9 (Brief comm.)
Norris LP, Stewart RE, Jain A, Hibner CS, Chaudhuri TK, Zabalgoitia M. Biplane transesophageal pacing echocardiography compared with dipyridamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease. 1993;126:676-85 (Prog. cardi.)
Norris SL, deGuzman M, Sobel E, Brooks S, Haywood LJ. Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction. 1993;126:1312-9
Nouri S (see Appleton et al). 1993;126:1494 (Letter reply)
Novotny H (see Vlay et al). 1993;126:807-15
Nozaki A (see Yamashita et al). 1993;126:742-4 (Brief comm.)
Nunobiki T (see Takahira et al). 1993;126:995-7 (Brief comm.)

O
O'Brien FJ (see Bernstein et al). 1993;126:251-4 (Brief comm.)
O'Connell JW (see Wolfe et al). 1993;126:1275-86
Ogawa H (see Miyao et al). 1993;126:1299-304
Ogawa S (see Sadanaga et al). 1993;126:114-21
Oh BH (see Lee et al). 1993;126:1401-7
Oh JK (see Kishon et al). 1993;126:667-75 (Prog. cardi.)
Ohki K (see Seino et al). 1993;126:887-95
Ohman EM, Christenson RH, Calif RM, George BS, Samaha JK, Kereiakes DJ, Worley SJ, Wall TC, Berrios E, Sigmon KN, Lee K, Topol EJ, TAMI 7 Study Group. Noninvasive detection of reperfusion after thrombolysis based on serum creatine kinase MB changes and clinical variables. 1993;126:819-26
Ohmori M (see Yamada et al). 1993;126:626-31
Oikawa N (see Murakawa et al). 1993;126:108-14
— (see Yamashita et al). 1993;126:719-22 (Brief comm.)
— (see Yamashita et al). 1993;126:742-4 (Brief comm.)
Okada M (see Yamaoka et al). 1993;126:1372-9
Okada Y (see Sadanaga et al). 1993;126:114-21
Okike ON (see Emlein et al). 1993;126:1084-90
Okubo A (see Seino et al). 1993;126:249-51 (Brief comm.)
O'Laughlin MP (see Grifka et al). 1993;126:979-84 (Prog. cardi.)
Oliver P (see Marie et al). 1993;126:571-7
Orlov MV, Brodsky MA, Allen BJ, Winters RJ, Orlov YSK. Spectrum of right heart involvement in patients with ventricular ta-

- chycardia unrelated to coronary artery disease or left ventricular dysfunction. 1993;126:1348-56
 — (see Brodsky et al). 1993;126:1113-20
 Orlov YSK (see Orlov et al). 1993;126:1348-56
 Ory D (see Coles et al). 1993;126:815-9
 Ossipov M (see Winslow et al). 1993;126:410-4
 Otto CM (see Raitt et al). 1993;126:946-55 (Curriculum cardiol.)
- P**
- Pai RG, Pai SM, Bodenheimer MM, Adamick RD. Estimation of rate of left ventricular pressure rise by Doppler echocardiography: its hemodynamic validation. 1993;126:240-2 (Brief comm.)
 Pai SM (see Pai et al). 1993;126:240-2 (Brief comm.)
 Paiement P (see Bonan et al). 1993;126:1334-40
 Park SW (see Lee et al). 1993;126:1401-7
 Park YB (see Lee et al). 1993;126:1401-7
 Pastore JO (see Losordo et al). 1993;126:168-76
 Patel A, Maloney A, Damato AN. On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt. 1993;126:184-8
 Patt J (see Mera et al). 1993;126:1224-5 (Brief comm.)
 Pearlman AS (see Raitt et al). 1993;126:946-55 (Curriculum cardiol.)
 Pelle G (see Dupouy et al). 1993;126:76-85
 Pérez JE (see Dávila-Román et al). 1993;126:155-60
 Perla C (see Wrisley et al). 1993;126:699 (Brief comm.)
 Perryman RA (see Horowitz et al). 1993;126:472-3 (Brief comm.)
 Pery N (see Lecarpentier et al). 1993;126:770-5 (Symposium)
 Pfeffer MA. Angiotensin-converting enzyme inhibition in congestive heart failure: benefit and perspective. 1993;126:789-93 (Symposium)
 Pfeiffer D (see Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)
 Philippe M (see Arnal et al). 1993;126:775-81 (Symposium)
 Phillips RA. The cardiologist's approach to evaluation and management of the patient with essential hypertension. 1993;126:648-66 (Curriculum cardiol.)
 Picard MH, Wilkins GT, Ray P, Weyman AE. Long-term effects of acute thrombolytic therapy on ventricular size and function. 1993;126:1-10
 Piessens JH, Stammen F, Desmet W, De Scheerder IK, Willems JL. Immediate and 6-month follow-up results of coronary angioplasty for restenosis: analysis of factors predicting recurrent clinical restenosis. 1993;126:565-70
 Pietrouisti A (see Galante et al). 1993;126:1491 (Letter)
 Piette JC (see Cacoub et al). 1993;126:1484-8 (Brief comm.)
 Pinto FJ (see Wranne et al). 1993;126:161-7
 Pires LA, Huang SKS. Nonsustained ventricular tachycardia: identification and management of high-risk patients. 1993;126:189-200 (Curriculum cardiol.)
 — (see Emlein et al). 1993;126:1084-90
 Pitrolo F. Systemic embolization during TTE. 1993;126:1492 (Letter reply)
 Piwnica-Worms DR (see Simons et al). 1993;126:641-7 (Curriculum cardiol.)
 Plotnick GD (see Rubin et al). 1993;126:233-4 (Brief comm.)
 — (see Schwengel et al). 1993;126:1182-6
 Polisca P (see Sommariva et al). 1993;126:256-8 (Brief comm.)
 Polizzi G (see Salatino et al). 1993;126:700-2 (Brief comm.)
 Porta N (see Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
 Porter CB (see Vacek et al). 1993;126:521-5
 Posma JL, Hamer HPM, Lie KI. Transverse sinus by TEE. 1993;126:1491-2 (Letter)
 Powe NR (see Sugarman et al). 1993;126:494-9 (Editorial)
 Pozderac R (see Michaelides et al). 1993;126:1320-5
 Prabhu S, Zabalgaita M. Determination of ventricular elastance with echocardiography: A reality? 1993;126:500-2 (Editorial)
 Prechel DP (see Louie et al). 1993;126:514-20
 Premaratne S (see Watanabe et al). 1993;126:840-6
 Prince CR (see Stoddard et al). 1993;126:956-62 (Prog. cardiol.)
 Pringle TH (see Bridges et al). 1993;126:451-2 (Brief comm.)
 Prior MW (see Golub et al). 1993;126:724-7 (Brief comm.)
 Pupita G, Mazzara D, Centanni M, Rimatori C, Ferretti GF, Dessi-Fulgheri P, Russo P, Rappelli A. Ischemia in collateral-dependent myocardium: effects of nifedipine and diltiazem in man. 1993;126:86-94
- Q**
- Queiroz R (see Akinboboye et al). 1993;126:731-2 (Brief comm.)
- R**
- Raby KE, Vita JA, Rocco MB, Yeung AC, Ganz P, Fantasia G, Barry J, Selwyn AP. Changing vasomotor responses of coronary arteries to nifedipine. 1993;126:333-8
 Raisner A (see Fram et al). 1993;126:969-78 (Prog. cardiol.)
 Raitt MH, Kraft CD, Gardner CJ, Pearlman AS, Otto CM. Subacute ventricular free wall rupture complicating myocardial infarction. 1993;126:946-55 (Curriculum cardiol.)
 Ramaciotti C. Doppler-detected aortic coarctation with PDA. 1993;126:1494 (Letter reply)
 Ramos A (see Santana et al). 1993;126:737-40 (Brief comm.)
 Raper RF (see Webster et al). 1993;126:480-3 (Brief comm.)
 Rappelli A (see Pupita et al). 1993;126:86-94
 Rardon DP (see Krause et al). 1993;126:1134-41
 Rasheed Q (see Nair et al). 1993;126:507-14
 Ray P (see Picard et al). 1993;126:1-10
 Rayl KL (see Iannone et al). 1993;126:1466-9 (Brief comm.)
 Rebergen SA, van der Wall EE, Doornbos J, de Roos A. Magnetic resonance measurement of velocity and flow: technique, validation, and cardiovascular applications. 1993;126:1439-56 (Prog. cardiol.)
 Redberg RF (see Chazouilleres et al). 1993;126:477-80 (Brief comm.)
 — (see Fitzgerald et al). 1993;126:1000-2 (Brief comm.)
 — (see Winslow et al). 1993;126:410-4
 Reddy KG (see Nair et al). 1993;126:507-14
 Reddy PS (see Murali et al). 1993;126:896-904
 Redington A, Rigby M. Balloon dilation of aortic coarctation. 1993;126:1492-3 (Letter)
 Redington AN (see Cullen and Redington). 1993;126:1493 (Letter)
 Reichart B (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
 Reid JL, MacFadyen RJ, Squire IB, Lees KR. Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose. 1993;126:794-7 (Symposium)
 Rennhak U (see Dissmann et al). 1993;126:832-9
 Resar JR, Wolff MR, Blumenthal RS, Coombs V, Brinker JA. Brachial approach for intracoronary stent implantation: a feasibility study. 1993;126:300-4
 Reyes PA. Chagas' disease in North America. 1993;126:1496 (Letter)
 Rials SJ (see Haberman et al). 1993;126:1121-6
 Ribeiro PA, Fawzy ME, Mimish L, Awad M, Dunn BE, Arafah MR, Duran CGM. Mitral stenosis and mitral regurgitation 1 year after Inoue mitral balloon valvotomy in a population of patients with pliable mitral valve stenosis. 1993;126:136-40
 Richard C, Thuillez C, Depret J, Auzépy P, Giudicelli J-F. Regional hemodynamic effects of perindopril in congestive heart failure. 1993;126:782-8 (Symposium)
 Richard J, Castello R, Dressler FA, Willman VL, Nashed A, Lewis B, Labovitz AJ. Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study. 1993;126:710-2 (Brief comm.)
 Rifai A (see Fawzy et al). 1993;126:1380-4
 Rigby M (see Redington and Rigby). 1993;126:1492-3 (Letter)
 Righetti A (see Ciaroni et al). 1993;126:304-11
 Rijlaarsdam M (see Vargas-Barron et al). 1993;126:426-32
 Rimatori C (see Pupita et al). 1993;126:86-94
 Roberts WC (see Shirani and Roberts). 1993;126:1030 (Brief comm.)
 Roberts-Thomson P (see Twidale et al). 1993;126:122-9
 Robuck OW (see Vacek et al). 1993;126:521-5
 Rocco MB (see Raby et al). 1993;126:333-8
 Rodriguez M, Froning J, Froelicher VF. ST0 or ST60. 1993;126:752-4 (Brief comm.)
 Roelandt JRTC (see Michiels et al). 1993;126:1495-6 (Letter)
 Rofino K (see Emlein et al). 1993;126:1084-90
 Romero-Cardenas A (see Vargas-Barron et al). 1993;126:426-32
 Rosamond TL (see Vacek et al). 1993;126:521-5
 Rosenbloom M (see Dávila-Román et al). 1993;126:155-60
 Ross DE (see Webster et al). 1993;126:480-3 (Brief comm.)
 Rothman A, Tong AD. Percutaneous coil embolization of superficial vascular connections in patients with congenital heart disease. 1993;126:206-13 (Prog. cardiol.)

- Rowe SK (see Handlin et al). 1993;126:235-40 (Brief comm.)
Rubin DC, Burch C, Plotnick GD, Hawke MW. Complex intra-aortic debris in the absence of carotid disease in patients with embolic stroke. 1993;126:233-4 (Brief comm.)
Rupprecht HJ (see Haude et al). 1993;126:15-22
Russell M (see Coles et al). 1993;126:815-9
Russo P (see Pupita et al). 1993;126:86-94
Ryan JM (see Michaelides et al). 1993;126:1320-5

S

- Sadanaga T, Ogawa S, Okada Y, Tsutsumi N, Iwanaga S, Yoshikawa T, Akaishi M, Handa S. Clinical evaluation of the use-dependent QRS prolongation and the reverse use-dependent QT prolongation of class I and class III antiarrhythmic agents and their value in predicting efficacy. 1993;126:114-21
Saeian K (see Salka et al). 1993;126:722-4 (Brief comm.)
Saeki F (see Abe et al). 1993;126:279-85
Saeki M (see Kodama et al). 1993;126:1385-92
Safirstein S (see Santana et al). 1993;126:737-40 (Brief comm.)
Sagar KB (see Salka et al). 1993;126:722-4 (Brief comm.)
Sahn DJ (see Simpson et al). 1993;126:1165-74
St Laurent L (see Golub et al). 1993;126:724-7 (Brief comm.)
Saito H (see Iwase et al). 1993;126:419-26
— (see Kodama et al). 1993;126:587-93
Sakamoto T (see Miyao et al). 1993;126:1299-304
Saksena S (see Kolettis et al). 1993;126:1222-3 (Brief comm.)
Sakuma T (see Ikeda et al). 1993;126:130-5
Saldeen TGP (see Nichols et al). 1993;126:285-92
— (see Yang et al). 1993;126:1287-92
Salka S, Saeian K, Sagar KB. Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transthoracic echocardiographic findings of left atrial thrombus. 1993;126:722-4 (Brief comm.)
Samaha JK (see Ohman et al). 1993;126:819-26
Samaniego V, Moguel R, Meaney E, Alvarez-Tostado R, Castillón M. Massive chylopericardium due to congenital fistulas. 1993;126:1005-6 (Brief comm.)
Samoil D, Schwartz JL. Coronary subclavian steal syndrome. 1993;126:1463-6 (Brief comm.)
Sanchez JA, Milei J, Yu Z-X, Storino R, Wenthold R Jr, Ferrans VJ. Immunohistochemical localization of laminin in the hearts of patients with chronic chagasic cardiomyopathy: relationship to thickening of basement membranes. 1993;126:1392-1401
Sanchez-Bayle M, Cocho P, Baeza J, Vila S, Niño Jesus Group. Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents. 1993;126:322-6
Santana O, Vivas PH, Ramos A, Safirstein S, Agatston AS. Multiple myeloma involving the pericardium associated with cardiac tamponade and constrictive pericarditis. 1993;126:737-40 (Brief comm.)
Sasaki Y (see Takei et al). 1993;126:458-9 (Brief comm.)
Sassower M (see Hartnell et al). 1993;126:1032-4 (Brief comm.)
Sassower MA, Abela GS, Koch JM, Manzo KM, Friedl SE, Vivino PG, Nesto RW. Angiographic evaluation of periprocedural and postprocedural abrupt closure after percutaneous coronary angioplasty. 1993;126:444-50 (Prog. cardiol.)
Saxena A, Vohra P, Jain Y, Narayanan S, Kumar RK. Umbilical vein cardiac catheterization. 1993;126:1494 (Letter)
— (see Dev et al). 1993;126:930-6 (Curriculum cardi.)
— (see Goswami et al). 1993;126:433-40
— (see Kolettis et al). 1993;126:1222-3 (Brief comm.)
Scalbert E (see Lecarpentier et al). 1993;126:770-5 (Symposium)
Schaefer C (see Werner et al). 1993;126:1408-16
Schechter D (see Murali et al). 1993;126:896-904
Scheinman MM (see Newman et al). 1993;126:1106-12
Schiller NB (see Chazouilleres et al). 1993;126:477-80 (Brief comm.)
— (see Fitzgerald et al). 1993;126:1000-2 (Brief comm.)
— (see Winslow et al). 1993;126:410-4
Schmid U (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
Schmitz O (see Götzsche et al). 1993;126:1417-26
Schnittger I (see Wranne et al). 1993;126:161-7
Schröder R (see Dissmann et al). 1993;126:832-9
Schuger CD (see Wagshal et al). 1993;126:1142-6
Schulhoff N (see Feld et al). 1993;126:31-8
Schultz L (see Gheorghade et al). 1993;126:271-8
Schwaiger A, Umlauf F, Weyer K, Larcher C, Lyons J, Mühlberger V, Dietze O, Grünwald K. Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction. 1993;126:406-10
Schwammenthal E, Hasfeld M, Karbenn U, Breithardt G. Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction. 1993;126:221-5 (Brief comm.)
Schwartz JL (see Samoil and Schwartz). 1993;126:1463-6 (Brief comm.)
Schwengel RH, Hawke MW, Fisher ML, Gottlieb SS, Plotnick GD. Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern. 1993;126:1182-6
Schwinger RHG, Böhm M, Uhlmann R, Schmid U, Überfuhr P, Kreuzer E, Reichart B, Erdmann E. Magnesium restores the altered force-frequency relationship in failing human myocardium. 1993;126:1018-21 (Brief comm.)
Scognamiglio R (see Buja et al). 1993;126:1187-93
Scorticini D (see Bonan et al). 1993;126:1334-40
Seah P-W (see Leung et al). 1993;126:732-4 (Brief comm.)
Seino Y, Ikeda U, Kawaguchi K, Yamamoto K, Sekiguchi H, Nakayama T, Takewaki S-I, Okubo A, Nagai R, Yazaki Y, Shimada K. Tuberculous pericarditis presumably diagnosed by polymerase chain reaction analysis. 1993;126:249-51 (Brief comm.)
—, Tsukamoto H, Ohki K, Nakamura T, Kashiwagi M, Takano T, Hayakawa H. Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics. 1993;126:887-95
Sekiguchi H (see Seino et al). 1993;126:249-51 (Brief comm.)
Selig MB. Stethoscopic and phonocardiographic devices: historical and future perspectives. 1993;126:262-8 (Editorial)
Selwyn AP (see Raby et al). 1993;126:333-8
Senior R, Bhattacharya S, Manspeaker P, Liu XJ, Leppo JA, Lahiri A. ^{99m}Tc-antimyosin antibody imaging for the detection of acute myocardial infarction in human beings. 1993;126:536-42
Seo JD (see Lee et al). 1993;126:1401-7
Serizawa T (see Yamashita et al). 1993;126:461-3 (Brief comm.)
Serruys PW, Foley DP, Kirkeeide RL, King SB III. Restenosis revisited: insights provided by quantitative coronary angiography. 1993;126:1243-67 (Editorial)
— (see Danchin et al). 1993;126:594-600
— (see Escaned et al). 1993;126:1326-33
— (see Haase et al). 1993;126:312-21
— (see Lamm et al). 1993;126:66-75
Seward JB (see Kishon et al). 1993;126:667-75 (Prog. cardi.)
Sezaki K (see Yamashita et al). 1993;126:719-22 (Brief comm.)
Shandas R (see Simpson et al). 1993;126:1165-74
Shani J (see Feld et al). 1993;126:31-8
Sharma S (see Dalvi and Sharma). 1993;126:1229-32 (Brief comm.)
Sharma SK, Israel DH, Kamean JL, Bodian CA, Ambrose JA. Clinical, angiographic, and procedural determinants of major and minor coronary dissection during angioplasty. 1993;126:39-47
Shaw LJ (see Takase et al). 1993;126:1099-106
Sheehan HM (see Nair et al). 1993;126:507-14
Sherman D, Smith C, Marboe C, Mosca R, Weinberger J, Di Tullio M, Homma S. Right atrial angiosarcoma causing a coronary artery fistula: diagnosis by transesophageal echocardiography. 1993;126:254-6 (Brief comm.)
Shettigar UR, Toole JG, Appunn DO. Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter. 1993;126:368-74
Shibata A (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
— (see Kodama et al). 1993;126:1385-92
Shimada K-e (see Horio et al). 1993;126:293-9
Shimada K (see Seino et al). 1993;126:249-51 (Brief comm.)
— (see Takahashi et al). 1993;126:1225-7 (Brief comm.)
Shimon D (see Zahger et al). 1993;126:999-1000 (Brief comm.)
Shirani J, Roberts WC. Epicardial lipoma. 1993;126:1030 (Brief comm.)
Shirato K (see Ikeda et al). 1993;126:130-5
Shrivastava S (see Gheorghade et al). 1993;126:271-8
Shrivastava S (see Dev et al). 1993;126:930-6 (Curriculum cardi.)
— (see Goswami et al). 1993;126:433-40
— (see Goswami et al). 1993;126:1147-51
Shyu K-G (see Ma et al). 1993;126:1227-9 (Brief comm.)

- Siebert H-G (see Heintz et al). 1993;126:987-9 (Brief comm.)
 Siegel LC (see Wranne et al). 1993;126:161-7
 Siegel RJ, Chae JS, Maurer G, Berlin M, Fishbein MC. Histopathologic correlation of the three-layered intravascular ultrasound appearance of normal adult human muscular arteries. 1993;126:872-8
 Sievers RE (see Wolfe et al). 1993;126:1275-86
 Sigmon KN (see Ohman et al). 1993;126:819-26
 Sigurdsson A, Held P, Swedberg K. Short- and long-term neurohormonal activation following acute myocardial infarction. 1993;126:1068-76
 Sihm I (see Götzsche et al). 1993;126:1417-26
 Simons GR, Piwnicka-Worms DR, Goldhaber SZ. Ovarian vein thrombosis. 1993;126:641-7 (Curriculum cardiol.)
 Simpson IA, Maciel BC, Moises V, Shandas R, Elias W, Valdes-Cruz L, Hesselink JR, Chung KJ, Sahn DJ. Cine magnetic resonance imaging and color Doppler flow mapping displays of flow velocity, spatial acceleration, and jet formation: a comparative in vitro study. 1993;126:1165-74
 Sims FH, Chen X, Zhang Y. Comparison of intimal thickening of Chinese and New Zealand coronary arteries. 1993;126:863-71
 Singh B (see Kaul et al). 1993;126:1152-5
 Smedira N (see Fitzgerald et al). 1993;126:1000-2 (Brief comm.)
 Smith C (see Sherman et al). 1993;126:254-6 (Brief comm.)
 Smith DHG (see Neutel et al). 1993;126:924-9
 Smith FC (see Bitar et al). 1993;126:1480-2 (Brief comm.)
 Smith K (see Wrisley et al). 1993;126:699 (Brief comm.)
 Sobel E (see Norris et al). 1993;126:1312-9
 Sobue T (see Kodama et al). 1993;126:587-93
 Sohn DW (see Lee et al). 1993;126:1401-7
 Somberg J (see Jaffrani et al). 1993;126:1239-42 (Editorial)
 Somberg JC (see Martyn et al). 1993;126:201-5 (Curriculum cardiol.)
 Somitsu Y (see Abe et al). 1993;126:279-85
 Sommariva L, Auricchio A, Polisca P, de Peppo AP, Chiariello L. Right atrial myxoma with atypical features of syndrome myxoma. 1993;126:256-8 (Brief comm.)
 Søndergaard L, Hildebrandt P, Lindvig K, Thomsen C, Ståhlberg F, Kassir E, Henriksen O. Valve area and cardiac output in aortic stenosis: quantification by magnetic resonance velocity mapping. 1993;126:1156-64
 Sparks E (see Triposkiadis et al). 1993;126:1175-81
 Spray TL (see Johnson et al). 1993;126:1493 (Letter reply)
 Squire IB (see Reid et al). 1993;126:794-7 (Symposium)
 Stadius ML, Collins C, Kernoff R. Local infusion balloon angioplasty to obviate restenosis compared with conventional balloon angioplasty in an experimental model of atherosclerosis. 1993;126:47-56
 Ståhlberg F (see Søndergaard et al). 1993;126:1156-64
 Stammen F (see Piessens et al). 1993;126:565-70
 Stancanelli B (see Malatino et al). 1993;126:700-2 (Brief comm.)
 Stanton MS (see Yale et al). 1993;126:997-9 (Brief comm.)
 Starling RC (see Triposkiadis et al). 1993;126:1175-81
 Steg PG, Makowski S, Meyer G, Garcia E, Cannon R, Bruneval P, Gourgon R. Feasibility and safety of pulsed dye laser irradiation in the pulmonary arteries. 1993;126:1477-80 (Brief comm.)
 Stewart RE (see Norris et al). 1993;126:676-85 (Prog. cardiol.)
 Stoddard MF. Transverse sinus by TEE. 1993;126:1492 (Letter reply)
 —, Prince CR, Ammass N, Goad JL, Vogel RL. Pulsed Doppler transthoracic echocardiographic determination of cardiac output in human beings: comparison with thermodilution technique. 1993;126:956-62 (Prog. cardiol.)
 Stohler JL (see Haberman et al). 1993;126:1121-6
 Storino R (see Sanchez et al). 1993;126:1392-1401
 Stramba-Badiale M, Guffanti S, Porta N, Frediani M, Beria G, Colnaghi C. QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant. 1993;126:740-2 (Brief comm.)
 Straub U (see Haude et al). 1993;126:15-22
 Strauss AW (see Johnson et al). 1993;126:1493 (Letter reply)
 Struck A (see Fitzgerald et al). 1993;126:1000-2 (Brief comm.)
 Strumpf RK, Heuser RR, Eagan JT Jr. Angioscopy: a valuable tool in the deployment and evaluation of intracoronary stents. 1993;126:1204-10 (Prog. cardiol.)
 — (see Heuser et al). 1993;126:213-8 (Prog. cardiol.)
 Struthers AD (see McLay et al). 1993;126:879-86
 Suard I (see Lecarpentier et al). 1993;126:770-5 (Symposium)
 Sugarman J, Powe NR, Guerri AD, Levine DM. Facts and fears regarding blood transfusions in decision making for thrombolytic therapy. 1993;126:494-9 (Editorial)
 Sugi M (see Ikeda et al). 1993;126:130-5
 Sugimoto T (see Usui et al). 1993;126:177-83
 — (see Yamashita et al). 1993;126:742-4 (Brief comm.)
 Sugiura M (see Yanase et al). 1993;126:747-9 (Brief comm.)
 Sutherland GR (see Groundstroem et al). 1993;126:702-5 (Brief comm.)
 Sutton C (see Tominaga et al). 1993;126:1049-58
 Suwarganda J (see Kiemeneij et al). 1993;126:23-31
 Suyama K (see Takei et al). 1993;126:458-9 (Brief comm.)
 Suzuki J-i (see Usui et al). 1993;126:177-83
 — (see Yamashita et al). 1993;126:461-3 (Brief comm.)
 Swedberg K (see Sigurdsson et al). 1993;126:1068-76
- T
- Tabbalat RA, Haft JL. Are reciprocal changes caused by ischemia at a distance or merely a benign electric phenomenon? A PTCA study. 1993;126:95-103
 Taguchi J (see Abe et al). 1993;126:279-85
 Tajik AJ (see Kishon et al). 1993;126:667-75 (Prog. cardiol.)
 Tajimi T (see Noma et al). 1993;126:459-61 (Brief comm.)
 Takahashi M, Ikeda U, Shimada K, Takeda H. Unilateral pulmonary edema related to pulmonary artery compression resulting from acute dissecting aortic aneurysm. 1993;126:1225-7 (Brief comm.)
 Takahira T, Utsunomiya T, Ishijima M, Mori H, Yano K, Nunobiki T, Eto H. Specific myocardial disease caused by multisystemic triglyceride storage in Jordans' anomaly. 1993;126:995-7 (Brief comm.)
 Takano T (see Seino et al). 1993;126:887-95
 Takase B, Younis LT, Byers SL, Shaw LJ, Labovitz AJ, Chaitman BR, Miller DD. Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients. 1993;126:1099-106
 Takeda H (see Takahashi et al). 1993;126:1225-7 (Brief comm.)
 Takeda T (see Horio et al). 1993;126:293-9
 Takei M, Sasaki Y, Suyama K, Furihata A, Chino C, Midorikawa T, Furuta S. Surgically treated case of complete obstruction of the left main coronary artery caused by Takayasu's arteritis. 1993;126:458-9 (Brief comm.)
 Takenaka K (see Yamashita et al). 1993;126:461-3 (Brief comm.)
 Takenaka T (see Horimoto et al). 1993;126:1002-5 (Brief comm.)
 Takeshita A (see Fukai et al). 1993;126:1305-11
 Takewaki S-i (see Seino et al). 1993;126:249-51 (Brief comm.)
 Takishima T (see Ikeda et al). 1993;126:130-5
 Takita T (see Ikeda et al). 1993;126:130-5
 Tamburino C (see Malatino et al). 1993;126:700-2 (Brief comm.)
 Tamburino G (see Malatino et al). 1993;126:700-2 (Brief comm.)
 TAMI 7 Study Group (see Ohman et al). 1993;126:819-26
 Tamura M (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
 Tanigawa T (see Kataoka and Tanigawa). 1993;126:258-9 (Brief comm.)
 Tarantini F (see Marchionni et al). 1993;126:147-54
 Taylor GW, Moliterno DJ, Hillis LD. Peripartum myocardial infarction. 1993;126:1462-3 (Brief comm.)
 Tebbenjohann J, Pfeiffer D, Jung W, Manz M, Lüderitz B. Radiofrequency catheter ablation of a posteroseptal accessory pathway within a coronary sinus diverticulum. 1993;126:1216-9 (Brief comm.)
 Tecce MA (see Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)
 Tejima T (see Yanase et al). 1993;126:747-9 (Brief comm.)
 Teng J-K (see Lin et al). 1993;126:735-7 (Brief comm.)
 Tentolouris C, Kontozoglou T, Toutouzias P. Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities. 1993;126:904-9
 Terasaki F, James TN, Hayashi T. Electron microscopic demonstration of intercellular junctions between subendocardial smooth muscle and myocardium in the sheep heart. 1993;126:399-405
 Teske DW, McGovern JJ, Allen HD. Congenital fibrous left ventricular diverticulum. 1993;126:1233-5 (Brief comm.)
 Thiene G (see Buja et al). 1993;126:1187-93

- Thomsen C (see Søndergaard et al). 1993;126:1156-64
Thuilleux C (see Richard et al). 1993;126:782-8 (Symposium)
Tilley B (see Gheorghiadu et al). 1993;126:271-8
Tomimaga R, Harasaki H, Sutton C, Emoto H, Kambic H, Hollman J. Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits. 1993;126:1049-58
Tong AD (see Rothman and Tong). 1993;126:206-13 (Prog. cardi-ol.)
Toole JG (see Shettigar et al). 1993;126:368-74
Toon RS (see Iannone et al). 1993;126:1466-9 (Brief comm.)
Topol EJ (see Ohman et al). 1993;126:819-26
Toutouzas P (see Tentolouris et al). 1993;126:904-9
Treese N (see Haude et al). 1993;126:15-22
Triposkiadis F, Starling RC, Haas GJ, Sparks E, Myerowitz D, Boudoulas H. Timing of recipient atrial contraction: a major determinant of transmitral diastolic flow in orthotopic cardiac transplantation. 1993;126:1175-81
Tsai L-M (see Fang and Tsai). 1993;126:1017-8 (Brief comm.)
— (see Lin et al). 1993;126:735-7 (Brief comm.)
Tsao PS (see Lefer et al). 1993;126:1489 (Letter reply)
Tsuji S (see Kaneko et al). 1993;126:248-9 (Brief comm.)
Tsumimura E (see Yamada et al). 1993;126:626-31
Tsukamoto H (see Seino et al). 1993;126:887-95
Tsunoda Y (see Mitaka et al). 1993;126:466-8 (Brief comm.)
Tsumumi N (see Sadanaga et al). 1993;126:114-21
Tuininga YS, Crijns HJGM, Wieselhof ACP, Van Veldhuisen DJ, Hillege HL, Lie KI. Electrocardiographic patterns relative to initiating mechanisms of exercise-induced ventricular tachycardia. 1993;126:359-67
Turiello C (see Whisley et al). 1993;126:699 (Brief comm.)
Turina M (see Vassalli et al). 1993;126:1091-8
Twidale N, Rayner TE, Menadue MF, Cain MD, Tonkin AM, Oliver JR. Atrial natriuretic factor release during rapid ventricular pacing: interplay between autonomic and hemodynamic stimulants (1993;125:1638-44). 1993;126:487 (Correction)
—, Roberts-Thomson P, McRitchie RJ. Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol. 1993;126:122-9
Tyagi S (see Kaul et al). 1993;126:1152-5

U

- Überfuhr P (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
Uchiyama H (see Aizawa et al). 1993;126:1473-4 (Brief comm.)
Ueshima K, Myers J, Graettinger WF, Atwood JE, Morris CK, Kawaguchi T, Froelicher VF. Exercise and morphologic comparison of chronic atrial fibrillation and normal sinus rhythm. 1993;126:260-1 (Brief comm.)
—, Morris CK, Atwood JE, Kawaguchi T, Froelicher VF. The effect of cardioversion on exercise capacity in patients with atrial fibrillation. 1993;126:1021-4 (Brief comm.)
Uhlmann R (see Schwinger et al). 1993;126:1018-21 (Brief comm.)
Ui K (see Abe et al). 1993;126:279-85
Ujhelyi MR, Fisher JR, Chow MSS, Kluger J. Evaluation of the need to modify antiarrhythmic therapy because of drug intolerance or inefficacy in patients evaluated by electrophysiology study. 1993;126:352-9
Umlauf F (see Schwaiger et al). 1993;126:406-10
Uretsky BF (see Murali et al). 1993;126:896-904
Usui M, Inoue H, Suzuki J-i, Watanabe F, Sugimoto T, Nishikawa J-i. Relationship between distribution of hypertrophy and electrocardiographic changes in hypertrophic cardiomyopathy. 1993;126:177-83
— (see Murakawa et al). 1993;126:108-14
— (see Yamashita et al). 1993;126:719-22 (Brief comm.)
— (see Yamashita et al). 1993;126:742-4 (Brief comm.)
Utsunomiya T (see Takahira et al). 1993;126:995-7 (Brief comm.)

V

- Vacek JL, Rosamond TL, Kramer PH, Crouse LJ, Porter CB, Robuck OW, White JL, Beauchamp GD. Sex-related differences in patients undergoing direct angioplasty for acute myocardial infarction. 1993;126:521-5
— (see Händlin et al). 1993;126:235-40 (Brief comm.)
Valdes-Cruz L (see Simpson et al). 1993;126:1165-74
van der Bel-Kann J (see Blankenship et al). 1993;126:989-95 (Brief comm.)

- van der Giessen WJ (see Haase et al). 1993;126:312-21
van der Linden MMJM (see Haase et al). 1993;126:312-21
Vander Salm TJ (see Emlein et al). 1993;126:1084-90
van der Wall EE (see Rebergen et al). 1993;126:1439-56 (Prog. cardi-ol.)
van der Wieken R (see Kiemeneij et al). 1993;126:23-31
VanFossen D (see Michaelides et al). 1993;126:1320-5
Van Veldhuisen DJ (see Tuininga et al). 1993;126:359-67
van Vliet HHDM (see Michiels et al). 1993;126:1495-6 (Letter)
Vargas-Barron J, Rijlaarsdam M, Romero-Cardenas A, Keirns C, Diaz-Moncada S. Transesophageal echocardiography in adults with congenital cardiopathies. 1993;126:426-32
Vasilomanolakis EC, Goldberg NM. Bepridil-induced pulmonary fibrosis. 1993;126:1016-7 (Brief comm.)
Vassalli G, Hess OM, Krogmann ON, Villari B, Corin WJ, Turina M, Krayenbuehl HP. Coronary artery size in mitral regurgitation and its regression after mitral valve surgery. 1993;126:1091-8
Ventura HO (see Jain et al). 1993;126:453-6 (Brief comm.)
Viamonte M Jr (see Guerra et al). 1993;126:600-6
Vick GW III (see Grifka et al). 1993;126:979-84 (Prog. cardi-ol.)
Vila S (see Sanchez-Bayle et al). 1993;126:322-6
Villari B (see Vassalli et al). 1993;126:1091-8
Villegas BJ, Hendel RC, Dahlberg ST, McSherry BA, Leppo JA. Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging. 1993;126:103-7
Visioli O (see Cuccia et al). 1993;126:468-72 (Brief comm.)
Vita JA (see Raby et al). 1993;126:333-8
Vivas PH (see Santana et al). 1993;126:737-40 (Brief comm.)
Vivino PG (see Sassower et al). 1993;126:444-50 (Prog. cardi-ol.)
Vlay LC (see Vlay et al). 1993;126:807-15
Vlay SC, Burger L, Vlay LC, Yen O, Novotny H, Grimson R. Prediction of sudden cardiac arrest: risk stratification by anatomic substrate. 1993;126:807-15
Vogel RL (see Stoddard et al). 1993;126:956-62 (Prog. cardi-ol.)
Vohra P (see Saxena et al). 1993;126:1494 (Letter)
Volterrani M (see Cuccia et al). 1993;126:468-72 (Brief comm.)
von Ameln H (see Dissmann et al). 1993;126:832-9
von Sinner W (see Fawzy et al). 1993;126:1380-4

W

- Waagstein F (see Andersson and Waagstein). 1993;126:632-40
Wagshal AB, Schuger CD, Habbal B, Mittleman RS, Huang SKS. Invasive electrophysiologic evaluation in octogenarians: Is age a limiting factor? 1993;126:1142-6
Walkenhorst F (see Heintz et al). 1993;126:987-9 (Brief comm.)
Wall TC (see Ohman et al). 1993;126:819-26
Walsh ML (see Foley et al). 1993;126:705-7 (Brief comm.)
Walsh RA (see Corey et al). 1993;126:1469-73 (Brief comm.)
Walsh WF (see Black et al). 1993;126:375-81
— (see Leung et al). 1993;126:732-4 (Brief comm.)
Wang S-P (see Chen et al). 1993;126:619-25
— (see Chiang et al). 1993;126:1213-6 (Brief comm.)
— (see Wu et al). 1993;126:1341-8
Wanner WR, Lewin CS. Emergency portable percutaneous cardiopulmonary bypass for left ventricular free wall rupture from myocardial infarction. 1993;126:1211-3 (Brief comm.)
Ward DE (see Gill et al). 1993;126:1126-33
— (see Gill et al). 1993;126:1357-63
Wasserleben V (see Iskandrian et al). 1993;126:1199-203 (Prog. cardi-ol.)
Watanabe BI, Premaratne S, Limm W, Mugiishi MM, McNamara JJ. High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model. 1993;126:840-6
Watanabe F (see Usui et al). 1993;126:177-83
Waters DD (see Fram et al). 1993;126:969-78 (Prog. cardi-ol.)
Weber MA (see Neutel et al). 1993;126:924-9
Webster PJ, Raper RF, Ross DE, Edwards AC, Choong CYP. Pharmacologic abolition of severe mitral regurgitation associated with dynamic left ventricular outflow tract obstruction after mitral valve repair: confirmation by transesophageal echocardiography. 1993;126:480-3 (Brief comm.)
Weinberger J (see Sherman et al). 1993;126:254-6 (Brief comm.)
Weinstein H (see Hendel et al). 1993;126:856-62
Weinstein R (see Mosseri et al). 1993;126:338-46
Weir I (see Grech et al). 1993;126:734-5 (Brief comm.)
Wenc K (see Mosseri et al). 1993;126:338-46

- Wenthold R Jr (see Sanchez et al). 1993;126:1392-1401
- Werner GS, Schaefer C, Dirks R, Figulla HR, Kreuzer H. Doppler echocardiographic assessment of left ventricular filling in idiopathic dilated cardiomyopathy during a one-year follow-up: relation to the clinical course of disease. 1993;126:1408-16
- Weyman AE (see Picard et al). 1993;126:1-10
- Weyrer K (see Schwaiger et al). 1993;126:406-10
- White CJ (see Jain et al). 1993;126:453-6 (Brief comm.)
- White JL (see Vacek et al). 1993;126:521-5
- Whittaker P (see Zheng et al). 1993;126:1474-7 (Brief comm.)
- Wiesfeld ACP, Crijns HJGM, Bergstrand RH, Almgren O, Hillege HL, Lie KI. Torsades de pointes with almokalant, a new class III antiarrhythmic drug. 1993;126:1008-11 (Brief comm.)
- (see Tuininga et al). 1993;126:359-67
- Wilkins GT (see Picard et al). 1993;126:1-10
- Willems JL (see Piessens et al). 1993;126:565-70
- Willens HJ (see Kessler et al). 1993;126:234-5 (Brief comm.)
- Willman VL (see Richard et al). 1993;126:710-2 (Brief comm.)
- Wilson AC (see Moreyra et al). 1993;126:1491 (Letter reply)
- Winer RL (see Neutel et al). 1993;126:924-9
- Winslow TM, Ossipov M, Redberg RF, Fazio GP, Schiller NB. Exercise capacity and hemodynamics in systemic lupus erythematosus: a Doppler echocardiographic exercise study. 1993;126:410-4
- Winters RJ (see Brodsky et al). 1993;126:1113-20
- (see Orlov et al). 1993;126:1348-56
- Wolfe CL, O'Connell JW, Sievers RE, Cobb C, Dae MW, Botvinick E. Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite. 1993;126:1275-86
- Wolff MR (see Resar et al). 1993;126:300-4
- Wolz DE, Granato JE, Giles HR, Marks SM, Grill HP. A unique chromosomal abnormality in idiopathic hyper eosinophilic syndrome presenting with cardiac involvement. 1993;126:246-8 (Brief comm.)
- Wong PC (see Marcus and Wong). 1993;126:1482-4 (Brief comm.)
- Woolfson N (see Zahger et al). 1993;126:999-1000 (Brief comm.)
- Worley SJ (see Ohman et al). 1993;126:819-26
- Wranne B, Pinto FJ, Siegel LC, Miller DC, Schnittger I. Abnormal postoperative interventricular motion: new intraoperative transesophageal echocardiographic evidence supports a novel hypothesis. 1993;126:161-7
- Wrisley D, Perla C, Smith K, Turiello C. Successful very early in-office treatment of stress test-induced myocardial infarction with anistreplase. 1993;126:699 (Brief comm.)
- Wu C-J (see Yeh et al). 1993;126:474-5 (Brief comm.)
- Wu T-J, Chen S-A, Chiang C-E, Yang C-J, Cheng C-C, Wang S-P, Chiang BN, Chang M-S. Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients. 1993;126:1341-8
- (see Chen et al). 1993;126:619-25
- Wu T-R (see Chiang et al). 1993;126:1213-6 (Brief comm.)
- Wyeth RP (see Fraiss et al). 1993;126:1219-22 (Brief comm.)
- X**
- Xia R (see Gill et al). 1993;126:1357-63
- Y**
- Yabe T (see Yamaoka et al). 1993;126:1372-9
- Yale SH, Adlakha A, Stanton MS. Dermatomyositis with pericardial tamponade and polymyositis with pericardial effusion. 1993;126:997-9 (Brief comm.)
- Yamada T, Fukunami M, Ohmori M, Iwakura K, Kumagai K, Kondoh N, Tsujimura E, Abe Y, Nagareda T, Kotoh K, Hoki N. New approach to the estimation of the extent of myocardial fibrosis in patients with dilated cardiomyopathy: use of signal-averaged electrocardiography. 1993;126:626-31
- Yamaguchi T (see Abe et al). 1993;126:279-85
- Yamamoto H (see Noma et al). 1993;126:459-61 (Brief comm.)
- Yamamoto K (see Seino et al). 1993;126:249-51 (Brief comm.)
- Yamanishi K (see Hirai et al). 1993;126:827-31
- Yamaoka O, Yabe T, Okada M, Endoh S, Nakamura Y, Mitsunami K, Kinoshita M, Mori M, Murata K, Morita R. Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography. 1993;126:1372-9
- Yamashita H, Momomura S-i, Mochizuki T, Suzuki J-i, Takenaka K, Serizawa T. Congenital left ventricular diverticulum with ventricular septal defect, mitral and tricuspid regurgitation, and coronary disease. 1993;126:461-3 (Brief comm.)
- Yamashita T, Inoue H, Ajiki K, Iwasawa K, Sezaki K, Oikawa N, Usui M, Murakawa Y. Bradycardia-dependent manifestation of retrograde triple atrioventricular nodal pathways: possible evidence of phase-4 block in the atrioventricular node. 1993;126:719-22 (Brief comm.)
- , —, Nozaki A, Ajiki K, Oikawa N, Kuo T-T, Usui M, Murakawa Y, Sugimoto T. Role of a long-short sequence for initiation of atrioventricular reentry in Wolff-Parkinson-White syndrome. 1993;126:742-4 (Brief comm.)
- (see Murakawa et al). 1993;126:108-14
- Yanase O, Motomiya T, Nomura S, Tejima T, Maemura T, Sugiyama M. Flail tricuspid valve in ruptured aneurysm of the right sinus of Valsalva. 1993;126:747-9 (Brief comm.)
- Yang BC, Saldeen TGP, Bryant JL, Nichols WW, Mehta JL. Long-term dietary fish oil supplementation protects against ischemia-reperfusion-induced myocardial dysfunction in isolated rat hearts. 1993;126:1287-92
- Yang C-J (see Chen et al). 1993;126:619-25
- (see Wu et al). 1993;126:1341-8
- Yang C-R (see Chiang et al). 1993;126:1213-6 (Brief comm.)
- Yang Y-J (see Lin et al). 1993;126:735-7 (Brief comm.)
- Yano K (see Takahira et al). 1993;126:995-7 (Brief comm.)
- Yasue H (see Miyao et al). 1993;126:1299-304
- Yasunari K (see Horio et al). 1993;126:293-9
- Yazaki Y (see Seino et al). 1993;126:249-51 (Brief comm.)
- Yeh K-H, Fu M, Wu C-J, Chua SO, Chen Y-C, Hung J-S. Transseptal balloon mitral valvuloplasty in mitral stenosis with atrial septal aneurysm. 1993;126:474-5 (Brief comm.)
- Yen O (see Vlay et al). 1993;126:807-15
- Yeung AC (see Raby et al). 1993;126:333-8
- Yokokawa K (see Horio et al). 1993;126:293-9
- Yokota M (see Iwase et al). 1993;126:419-26
- (see Kodama et al). 1993;126:587-93
- Yoon J, Koh KK, Cho SK, Kim SS, Jin SH. Superior vena cava syndrome after repeated insertion of transvenous pacemaker. 1993;126:1014-5 (Brief comm.)
- Yoshida K (see Johnston et al). 1993;126:756-60 (Symposium)
- Yoshida N (see Hirai et al). 1993;126:827-31
- Yoshikawa T (see Sadanaga et al). 1993;126:114-21
- Yoshimura H (see Noma et al). 1993;126:459-61 (Brief comm.)
- Yoshimura T (see Horio et al). 1993;126:293-9
- Younis LT (see Takase et al). 1993;126:1099-106
- Yu Z-X (see Sanchez et al). 1993;126:1392-1401
- Z**
- Zabalgoitia M (see Norris et al). 1993;126:676-85 (Prog. cardiol.)
- (see Prabhu and Zabalgoitia). 1993;126:500-2 (Editorial)
- Zager W (see Horowitz et al). 1993;126:472-3 (Brief comm.)
- Zahger D, Lotan C, Admon D, Klapholz L, Kaufman B, Shimon D, Woolfson N, Gotsman MS. Very early appearance of Kaposi's sarcoma after cardiac transplantation in Sephardic Jews. 1993;126:999-1000 (Brief comm.)
- Zaman L (see Fawzy et al). 1993;126:1380-4
- Zelis R (see Drexler et al). 1993;126:761-3 (Symposium)
- Zhang S (see Kodama et al). 1993;126:1385-92
- Zhang Y (see Sims et al). 1993;126:863-71
- Zheng S-M, Kloner RA, Whittaker P. Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser. 1993;126:1474-7 (Brief comm.)
- Zhu YY (see Krishnan et al). 1993;126:578-86
- Zipes DP (see Krause et al). 1993;126:1134-41

Subject index*

A

- Ablation, laser; see Laser surgery**
- Accessory pathways; see Heart conduction system**
- Acquired immunodeficiency syndrome**
Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)
- Action potentials**
Evidence for a reexcitability gap in man after treatment with type I antiarrhythmic drugs (Haberman et al). 1993;126:1121-6
- Adenosine**
Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging (Villegas et al). 1993;126:103-7
Pretreatment with theophylline does not affect adenosine-induced thallium-201 myocardial imaging (Heller et al). 1993;126:1077-83
- Adenosine deaminase**
Adenosine deaminase inhibition is not cardioprotective in the rat (Li and Kloner). 1993;126:1293-8
- Administration, cutaneous**
Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension (Houston and Hays). 1993;126:918-23
- Administration, oral**
The effects of chronic oral milrinone therapy on early postinfarction left ventricular remodeling (Jain et al). 1993;126:543-51
- Adolescence**
Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents (Sanchez-Bayle et al). 1993;126:322-6
- Age factors**
Age-related changes in left and right ventricular filling velocity profiles and their relationship in normal subjects (Iwase et al). 1993;126:419-26
Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients (Wu et al). 1993;126:1341-8
Invasive electrophysiologic evaluation in octogenarians: Is age a limiting factor? (Wagshal et al). 1993;126:1142-6
- Aged**
Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients (Wu et al). 1993;126:1341-8
Early exercise testing after acute myocardial infarction in the elderly: clinical evaluation and prognostic significance (Ciaroni et al). 1993;126:304-11
On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt (Patel et al). 1993;126:184-8
Invasive electrophysiologic evaluation in octogenarians: Is age a limiting factor? (Wagshal et al). 1993;126:1142-6
- Air-contrast test; see Echocardiography, transesophageal**
- Algorithms**
Can the same edge-detection algorithm be applied to on-line and off-line analysis systems? Validation of a new cinefilm-based geometric coronary measurement software (Haase et al). 1993;126:312-21
- Almokalant**
Torsades de pointes with almokalant, a new class III antiarrhythmic drug (Wiesfeld et al). 1993;126:1008-11 (Brief comm.)

Alteplase

- Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction (Arora et al). 1993;126:225-8 (Brief comm.)
Effectiveness of intravenous rTPA in the treatment of massive pulmonary embolism and right heart thromboembolism (Cucchia et al). 1993;126:468-72 (Brief comm.)
Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs (Nichols et al). 1993;126:285-92
Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration (Becker et al). 1993;126:11-4
Treatment of pacemaker-associated right atrial thrombus with 2-hour rTPA infusion (Cooper et al). 1993;126:228-9 (Brief comm.)

AMERICAN HEART JOURNAL

- The birth and progress of the first heart journal (Mason). 1993;126:503-6 (Editor's page)

Amiodarone

- Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol (Twidale et al). 1993;126:122-9

Anatomic substrate, coronary artery; see Coronary vessels, anatomy

Anatomically corrected malposition of great arteries; see Transposition of great vessels

Androgen receptor gene; see Receptors, androgen

Anemia, sickle cell

- Inhibition of endothelium-dependent vasorelaxation by sickle erythrocytes (Mosseri et al). 1993;126:338-46

Aneurysm

- Aneurysm of the atrioventricular septum between the left ventricle and right atrium without septal defect (Lin et al). 1993;126:735-7 (Brief comm.)
Atrial septal aneurysm simulating a left atrial mass diagnosed by transesophageal echocardiography (Mera et al). 1993;126:1224-5 (Brief comm.)
Echocardiographic diagnosis of aneurysm of the sinus of Valsalva (Dev et al). 1993;126:930-6 (Curriculum cardiol.)
Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transesophageal echocardiography (Groundstroem et al). 1993;126:702-5 (Brief comm.)
Transseptal balloon mitral valvuloplasty in mitral stenosis with atrial septal aneurysm (Yeh et al). 1993;126:474-5 (Brief comm.)

Aneurysm, dissecting

- Unilateral pulmonary edema related to pulmonary artery compression resulting from acute dissecting aortic aneurysm (Takahashi et al). 1993;126:1225-7 (Brief comm.)

Aneurysm, ruptured

- Flail tricuspid valve in ruptured aneurysm of the right sinus of Valsalva (Yanase et al). 1993;126:747-9 (Brief comm.)

Angina, unstable

- Acute impact of percutaneous transluminal coronary angioplasty on the ischemic burden in stable and unstable angina (Foley et al). 1993;126:705-7 (Brief comm.)
Therapeutic approach to unstable angina: nitroglycerin, heparin, and combined therapy (Jaffrani et al). 1993;126:1239-42 (Editorial)

Angina pectoris

- Acute impact of percutaneous transluminal coronary angioplasty on the ischemic burden in stable and unstable angina (Foley et al). 1993;126:705-7 (Brief comm.)
Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake (Kodama et al). 1993;126:587-93
Usefulness of exercise SPECT-thallium to detect asymptomatic restenosis in patients who had angina before coronary angioplasty (Marie et al). 1993;126:571-7

*July, pp. 1-270; August, pp. 271-502; September, part 1, pp. 503-754; part 2, pp. 755-806; October, pp. 807-1048; November, pp. 1049-1268; December, pp. 1269-1544.

Angina pectoris, variant

CNS-mediated coronary spasm (Friedman) (Letter); (MacAlpin) (Reply). 1993;126:1490-1

Angiography; see also Coronary angiography

Angioscopy: a valuable tool in the deployment and evaluation of intracoronary stents (Strumpf et al). 1993;126:1204-10 (Prog. cardiol.)

Comparison of the natural history of irregular and smooth coronary lesions: insights into the pathogenesis, progression, and prognosis of coronary atherosclerosis (Haft and Al-Zarka). 1993;126:551-61

Mechanisms of angiographically successful directional coronary atherectomy: evaluation by intracoronary ultrasound and comparison with transluminal coronary angioplasty (Nair et al). 1993;126:507-14

Selective presaturation magnetic resonance angiography: new method for detecting intracardiac shunts (Hartnell et al). 1993;126:1032-4 (Brief comm.)

Angioplasty, balloon; see also Balloon dilatation

Coronary restenosis: evaluation of a restenosis injury index in a swine model (Bonan et al). 1993;126:1334-40

Local infusion balloon angioplasty to obviate restenosis compared with conventional balloon angioplasty in an experimental model of atherosclerosis (Stadius). 1993;126:47-56

Percutaneous transluminal angioplasty for subclavian artery stenosis in patients with subclavian steal syndrome and coronary subclavian steal syndrome (Crowe and Iannone). 1993;126:229-33 (Brief comm.)

Percutaneous transluminal angioplasty of the innominate artery combined with carotid endarterectomy (Iannone et al). 1993;126:1466-9 (Brief comm.)

Angioplasty, transluminal, percutaneous coronary

Acute impact of percutaneous transluminal coronary angioplasty on the ischemic burden in stable and unstable angina (Foley et al). 1993;126:705-7 (Brief comm.)

Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting (Kahn). 1993;126:561-4

Angioplasty of the right coronary artery with origin of all three coronary arteries from a single ostium in the right sinus of Valsalva (Chan et al). 1993;126:985-7 (Brief comm.)

Angioscopic evaluation of periprocedural and postprocedural abrupt closure after percutaneous coronary angioplasty (Sassower et al). 1993;126:444-50 (Prog. cardiol.)

Are reciprocal changes caused by ischemia at a distance or merely a benign electric phenomenon? A PTCA study (Tabalat and Haft). 1993;126:95-103

Clinical, angiographic, and procedural determinants of major and minor coronary dissection during angioplasty (Sharma et al). 1993;126:39-47

Coronary atherectomy versus angioplasty: the CAVA study (Feld et al). 1993;126:31-8

Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits (Tominaga et al). 1993;126:1049-58

Emergency coronary stenting with the Palmaz-Schatz stent for failed transluminal coronary angioplasty: results of a learning phase (Kiemeneij et al). 1993;126:23-31

High-fidelity translesional pressure gradients during percutaneous transluminal coronary angioplasty: correlation with quantitative coronary angiography (Lamm et al). 1993;126:66-75

Immediate and 6-month follow-up results of coronary angioplasty for restenosis: analysis of factors predicting recurrent clinical restenosis (Piessens et al). 1993;126:565-70

In vivo radiofrequency thermal balloon angioplasty of porcine coronary arteries: histologic effects and safety (Fram et al). 1993;126:969-78 (Prog. cardiol.)

Magnetic resonance imaging compared with angiography in the evaluation of intermediate-term result of coarctation balloon angioplasty (Fawzy et al). 1993;126:1380-4

Mechanisms of angiographically successful directional coronary atherectomy: evaluation by intracoronary ultrasound and comparison with transluminal coronary angioplasty (Nair et al). 1993;126:507-14

Quantitative angiography during coronary angioplasty with a single angiographic view: a comparison of automated edge detection and videodensitometric techniques (Escaned et al). 1993;126:1326-33

Angioplasty, transluminal, percutaneous coronary—Cont'd

Release of immunoreactive endothelin from the heart during percutaneous transluminal coronary angioplasty (Malatino et al). 1993;126:700-2 (Brief comm.)

Restenosis revisited: insights provided by quantitative coronary angiography (Serruys et al). 1993;126:1243-67 (Editorial)

Reversal of refractory hypotension with intracoronary epinephrine during coronary angioplasty (Kahn and Hartzler). 1993;126:463-6 (Brief comm.)

The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size (Charney and Cohen). 1993;126:937-45

Serial changes in atrial and brain natriuretic peptides in patients with acute myocardial infarction treated with early coronary angioplasty (Horio et al). 1993;126:293-9

Sex-related differences in patients undergoing direct angioplasty for acute myocardial infarction (Vacek et al). 1993;126:521-5

Subacute thrombotic complications after intracoronary implantation of Palmaz-Schatz stents (Haude et al). 1993;126:15-22

Subcutaneous heparin in postangioplasty management: comparative trial with intravenous heparin (Fail et al). 1993;126:1059-67

Usefulness of exercise SPECT-thallium to detect asymptomatic restenosis in patients who had angina before coronary angioplasty (Marie et al). 1993;126:571-7

Angiosarcoma; see Hemangiosarcoma**Angioscopy**

Angioscopic evaluation of periprocedural and postprocedural abrupt closure after percutaneous coronary angioplasty (Sassower et al). 1993;126:444-50 (Prog. cardiol.)

Angioscopy: a valuable tool in the deployment and evaluation of intracoronary stents (Strumpf et al). 1993;126:1204-10 (Prog. cardiol.)

De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angioscopy (Jain et al). 1993;126:453-6 (Brief comm.)

Use of Doppler guide wire for intraluminal diagnosis to facilitate coronary intervention (Heuser et al). 1993;126:213-8 (Prog. cardiol.)

Angiotensin-converting enzyme inhibitors

Angiotensin-converting enzyme inhibition in congestive heart failure: benefit and perspective (Pfeffer). 1993;126:789-93 (Symposium)

Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)

The cardiac renin-angiotensin system in heart failure (Johnston et al). 1993;126:756-60 (Symposium)

Contribution of ACE inhibition to the management of heart failure: introduction (Cohn). 1993;126:755 (Symposium)

Effect of perindopril in rat cardiac volume overload (Arnall et al). 1993;126:775-81 (Symposium)

Efficacy and acceptability of perindopril in mild to moderate chronic congestive heart failure (Lechat et al). 1993;126:798-806 (Symposium)

Endothelial function in congestive heart failure (Drexler et al). 1993;126:761-3 (Symposium)

Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy (Lecarpentier et al). 1993;126:770-5 (Symposium)

Regional hemodynamic effects of perindopril in congestive heart failure (Richard et al). 1993;126:782-8 (Symposium)

Systemic and regional hemodynamic effects of perindopril in experimental heart failure (Medvedev and Gorodetskaya). 1993;126:764-9 (Symposium)

Anistreplase

Successful very early in-office treatment of stress test-induced myocardial infarction with anistreplase (Wrisley et al). 1993;126:699 (Brief comm.)

Anomalous pulmonary venous connection; see Pulmonary veins**Anti-anginal agents; see Angina pectoris****Anti-arrhythmia agents**

Clinical evaluation of the use-dependent QRS prolongation and the reverse use-dependent QT prolongation of class I and class III antiarrhythmic agents and their value in predicting efficacy (Sadanaga et al). 1993;126:114-21

Anti-arrhythmia agents—Cont'd

Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol (Twidale et al). 1993;126:122-9

Evaluation of the need to modify antiarrhythmic therapy because of drug intolerance or inefficacy in patients evaluated by electrophysiology study (Ujhelyi et al). 1993;126:352-9

Evidence for a reexcitability gap in man after treatment with type I antiarrhythmic drugs (Haberman et al). 1993;126:1121-6

Torsades de pointes with almokalant, a new class III antiarrhythmic drug (Wiesfeld et al). 1993;126:1008-11 (Brief comm.)

Antibiotics

QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant (Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)

Antibodies

^{99m}Tc-antimyosin antibody imaging for the detection of acute myocardial infarction in human beings (Senior et al). 1993;126:536-42

Antidepressive agents

Proarrhythmia of nonantiarrhythmic drugs (Martyn et al). 1993;126:201-5 (Curriculum cardiol.)

Aorta

Characterization of the aortic echo-Doppler profile in normal children during maximal treadmill exercise (Cyran et al). 1993;126:1024-9 (Brief comm.)

Complex intraaortic debris in the absence of carotid disease in patients with embolic stroke (Rubin et al). 1993;126:233-4 (Brief comm.)

Aortic aneurysm

Unilateral pulmonary edema related to pulmonary artery compression resulting from acute dissecting aortic aneurysm (Takahashi et al). 1993;126:1225-7 (Brief comm.)

Aortic atresia; see Aortic diseases

Aortic coarctation

Balloon dilation of aortic coarctation (Redington and Rigby) (Letter). (Johnson et al) (Reply). 1993;126:1492-3

Doppler-detected aortic coarctation with PDA (Cullen and Redington) (Letter); (Ramaciotti) (Reply). 1993;126:1493-4

Magnetic resonance imaging compared with angiography in the evaluation of intermediate-term result of coarctation balloon angioplasty (Fawzy et al). 1993;126:1380-4

Aortic diseases

Aortico-left ventricular tunnel with aortic atresia in the newborn (Bitar et al). 1993;126:1480-2 (Brief comm.)

Detection of major aortopulmonary collateral arteries by transthoracic echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)

Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities (Tentolouris et al). 1993;126:904-9

Aortic dissection; see Dissection

Aortic regurgitation; see Aortic valve insufficiency

Aortic rupture

Aortocameral fistula: a rare complication of aortic dissection (Lindsay). 1993;126:441-3 (Curriculum cardiol.)

Aortic ulcer; see Ulcer

Aortic valve, pathology

Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities (Tentolouris et al). 1993;126:904-9

Aortic valve insufficiency

Limitations of color flow Doppler imaging in the quantification of valvular regurgitation: velocity of regurgitant jet, rather than volume, determines size of color Doppler image (Losordo et al). 1993;126:168-76

Pulmonary infundibular stenosis, coronary artery disease, and aortic regurgitation caused by mediastinal radiation (Horimoto et al). 1993;126:1002-5 (Brief comm.)

Aortic valve stenosis

Balloon expandable intravascular stents: aortic implantation and late further dilation in growing minipigs (Grifka et al). 1993;126:979-84 (Prog. cardiol.)

Valve area and cardiac output in aortic stenosis: quantification by magnetic resonance velocity mapping (Søndergaard et al). 1993;126:1156-64

Aortico-left ventricular tunnel; see Heart defects, congenital

Aortocameral fistula; see Fistula

Apical thrombus; see Thrombosis

Arrhythmia

Developmental differences in canine cardiac surgical scars (Denfield et al). 1993;126:382-9

Is exercise testing safe in patients treated with flecainide for atrial arrhythmia? (Blatt et al). 1993;126:268-9 (Editorial)

Nonsustained ventricular tachycardia: identification and management of high-risk patients (Pires and Huang). 1993;126:189-200 (Curriculum cardiol.)

Arrhythmogenic right ventricular dysplasia; see Heart ventricle, abnormalities

Arterial occlusive diseases

Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting (Kahn). 1993;126:561-4

Comparison of the natural history of irregular and smooth coronary lesions: insights into the pathogenesis, progression, and prognosis of coronary atherosclerosis (Haft and Al-Zarka). 1993;126:551-61

Arterial thrombosis; see Thrombophlebitis

Arteries

Do arterial endothelin 1 levels affect local arterial stiffness? (Heintz et al). 1993;126:987-9 (Brief comm.)

Histopathologic correlation of the three-layered intravascular ultrasound appearance of normal adult human muscular arteries (Siegel et al). 1993;126:872-8

Arteriography; see Angiography

Arteritis, Takayasu; see Pulseless disease

Atherectomy, coronary

Coronary atherectomy versus angioplasty: the CAVA study (Feld et al). 1993;126:31-8

Mechanisms of angiographically successful directional coronary atherectomy: evaluation by intracoronary ultrasound and comparison with transluminal coronary angioplasty (Nair et al). 1993;126:507-14

Atherosclerosis; see Coronary arteriosclerosis

Atrial arrhythmia; see Arrhythmia

Atrial contraction; see Atrial function

Atrial dissection; see Dissection

Atrial fibrillation

Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transthoracic echocardiographic findings of left atrial thrombus (Salka et al). 1993;126:722-4 (Brief comm.)

Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter (Shettigar et al). 1993;126:368-74

The effect of cardioversion on exercise capacity in patients with atrial fibrillation (Ueshima et al). 1993;126:1021-4 (Brief comm.)

Evaluation of transthoracic echocardiography before cardioversion of atrial fibrillation and flutter in nonanticoagulated patients (Black et al). 1993;126:375-81

Exercise and morphologic comparison of chronic atrial fibrillation and normal sinus rhythm (Ueshima et al). 1993;126:260-1 (Brief comm.)

Intermittent regurgitation flow with Björk-Shiley mitral prosthesis in atrial fibrillation (Bodur and Friart). 1993;126:1006-7 (Brief comm.)

Atrial flutter

Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter (Shettigar et al). 1993;126:368-74

Evaluation of transthoracic echocardiography before cardioversion of atrial fibrillation and flutter in nonanticoagulated patients (Black et al). 1993;126:375-81

Radiofrequency catheter ablation of atrial flutter in a patient with postoperative congenital heart disease (Case et al). 1993;126:715-6 (Brief comm.)

Atrial function

Timing of recipient atrial contraction: a major determinant of transmitral diastolic flow in orthotopic cardiac transplantation (Triposkiadis et al). 1993;126:1175-81

Atrial natriuretic factor

Endothelin-1 and atrial natriuretic peptide in septic shock (Mitsutaka et al). 1993;126:466-8 (Brief comm.)

Serial changes in atrial and brain natriuretic peptides in patients with acute myocardial infarction treated with early coronary angioplasty (Horio et al). 1993;126:293-9

Atrial natriuretic factor—Cont'd

Short- and long-term neurohormonal activation following acute myocardial infarction (Sigurdsson et al). 1993;126:1068-76

Atrial septal aneurysm; see Aneurysm

Atrial septal defects; *see* Heart septal defects, atrial

Atrial thrombosis; see Thrombosis

Atrioventricular block; *see* Heart block

Atrioventricular nodal pathways; *see* Heart conduction system

Atrioventricular nodal reentry tachycardia; *see* Tachycardia, atrioventricular nodal reentry

Atrioventricular node

Bradycardia-dependent manifestation of retrograde triple atrioventricular nodal pathways: possible evidence of phase-4 block in the atrioventricular node (Yamashita et al). 1993;126:719-22 (Brief comm.)

Atrioventricular septum; *see* Heart septum

Atrioventricular valve patch dehiscence; *see* Surgical wound dehiscence

Atrium; see Heart atrium

Auscultation, heart; *see* Heart auscultation

Autoimmune diseases

FK506 therapy of experimental autoimmune myocarditis after onset of the disease (Kodama et al). 1993;126:1385-92

Autopsy

Histopathologic correlation of the three-layered intravascular ultrasound appearance of normal adult human muscular arteries (Siegel et al). 1993;126:872-8

B

Balloon angioplasty; *see* Angioplasty, balloon

Balloon dilatation; *see also* Angioplasty, balloon

Balloon dilation of aortic coarctation (Redington and Rigby)

(Letter); (Johnson et al) (Reply). 1993;126:1492-3

Balloon expandable intravascular stents: aortic implantation and late further dilation in growing minipigs (Grifka et al). 1993;126:979-84 (Prog. cardiol.)

Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise (Ikeda et al). 1993;126:130-5

Long-term results after balloon pulmonary valvuloplasty in adults (Kaul et al). 1993;126:1152-5

Mitral stenosis and mitral regurgitation 1 year after Inoue mitral balloon valvotomy in a population of patients with pliable mitral valve stenosis (Ribeiro et al). 1993;126:136-40

Percutaneous balloon mitral valvuloplasty: analysis of echocardiographic and other variables related to outcome (Goswami et al). 1993;126:1147-51

Quantitative angiography during coronary angioplasty with a single angiographic view: a comparison of automated edge detection and videodensitometric techniques (Escaned et al). 1993;126:1326-33

Transseptal balloon mitral valvuloplasty in mitral stenosis with atrial septal aneurysm (Yeh et al). 1993;126:474-5 (Brief comm.)

Basement membrane

Immunohistochemical localization of laminin in the hearts of patients with chronic chagasic cardiomyopathy: relationship to thickening of basement membranes (Sanchez et al). 1993;126:1392-1401

Bepridil

Bepridil-induced pulmonary fibrosis (Vasilomanolakis and Goldberg). 1993;126:1016-7 (Brief comm.)

Beta Blocker Heart Attack Trial

Prognostic significance of electrocardiographic persistent ST depression in patients with their first myocardial infarction in the placebo arm of the Beta Blocker Heart Attack Trial (Gheorghiade et al). 1993;126:271-8

Biopsy

Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10

Biplane transesophageal echocardiography; *see* Echocardiography, transesophageal

Björk-Shiley prosthesis; *see* Heart valve prosthesis

Blacks

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Blood

Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics (Seino et al). 1993;126:887-95

Hematologic complications of diltiazem overdose (Fang and Tsai). 1993;126:1017-8 (Brief comm.)

Blood flow velocity

Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern (Schwengel et al). 1993;126:1182-6

Age-related changes in left and right ventricular filling velocity profiles and their relationship in normal subjects (Iwase et al). 1993;126:419-26

Cine magnetic resonance imaging and color Doppler flow mapping displays of flow velocity, spatial acceleration, and jet formation: a comparative in vitro study (Simpson et al). 1993;126:1165-74

Limitations of color flow Doppler imaging in the quantification of valvular regurgitation: velocity of regurgitant jet, rather than volume, determines size of color Doppler image (Losordo et al). 1993;126:168-76

Magnetic resonance measurement of velocity and flow: technique, validation, and cardiovascular applications (Rebergen et al). 1993;126:1439-56 (Prog. cardiol.)

Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm (Lee et al). 1993;126:1401-7

Validation of volumetric flow measurements by means of Doppler-tipped coronary angioplasty guide wire (Labovitz et al). 1993;126:1456-61 (Prog. cardiol.)

Blood pressure

Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern (Schwengel et al). 1993;126:1182-6

Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)

Attenuation of baroreflex changes in cardiac sympathetic efferent activities during acute myocardial ischemia (Hageman and Gantenberg). 1993;126:347-51

Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake (Kodama et al). 1993;126:587-93

Estimation of rate of left ventricular pressure rise by Doppler echocardiography: its hemodynamic validation (Pai et al). 1993;126:240-2 (Brief comm.)

On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt (Patel et al). 1993;126:184-8

High-fidelity translesional pressure gradients during percutaneous transluminal coronary angioplasty: correlation with quantitative coronary angiography (Lamm et al). 1993;126:66-75

Plasma endothelin and pulmonary pressures in patients with congestive heart failure (Cacoub et al). 1993;126:1484-8 (Brief comm.)

Sensitivity and reproducibility of the instantaneous hyperemic flow versus pressure slope index compared to coronary flow reserve for the assessment of stenosis severity (Cleary et al). 1993;126:57-65

Blood tests; see Hematologic tests**Blood transfusion**

Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)

Bookshelf

Bookshelf. 1993;126:270, 1048, 1268

Brachial artery

Brachial approach for intracoronary stent implantation: a feasibility study (Resar et al). 1993;126:300-4

Brachiocephalic trunk

Percutaneous transluminal angioplasty of the innominate artery combined with carotid endarterectomy (Iannone et al). 1993;126:1466-9 (Brief comm.)

Bradyarrhythmia; *see* Bradycardia

Bradycardia

Bradycardia-dependent manifestation of retrograde triple atrioventricular nodal pathways: possible evidence of phase-4 block in the atrioventricular node (Yamashita et al). 1993;126:719-22 (Brief comm.)

Idiopathic ventricular fibrillation and bradycardia-dependent intraventricular block (Aizawa et al). 1993;126:1473-4 (Brief comm.)

Prolonged bradyarrhythmias after isolated coronary artery bypass graft surgery (Emlein et al). 1993;126:1084-90

Temporary transvenous pacemaker placement: What criteria constitute an adequate pacing site? (Goldberger et al). 1993;126:488-93 (Brief comm.)

Brain

Serial changes in atrial and brain natriuretic peptides in patients with acute myocardial infarction treated with early coronary angioplasty (Horio et al). 1993;126:293-9

Brief communications

Brief communications. 1993;126:219-61, 451-87, 699-754, 985-1034, 1211-38, 1462-88

Bundle-branch block

Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context (Krishnan et al). 1993;126:578-86

Verapamil for the suppression of idiopathic ventricular tachycardia of left bundle branch block-like morphology (Gill et al). 1993;126:1126-33

C

CA²⁺ channels; *see* Calcium channels

CAD; *see* Coronary disease

Calcification, pathologic; *see* Calcinosi

Calcinosi

Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities (Tentolouris et al). 1993;126:904-9

Calcium channel blockers

Bepiridil-induced pulmonary fibrosis (Vasilomanolakis and Goldberg). 1993;126:1016-7 (Brief comm.)

Calcium channels

Characteristics of Ca²⁺-activated K⁺ channels isolated from the left ventricle of a patient with idiopathic long QT syndrome (Krause et al). 1993;126:1134-41

Captopril

Acute effects of captopril on the renal actions of furosemide in patients with chronic heart failure (McLay et al). 1993;126:879-86

Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)

Cardiac arrest; *see* Heart arrest

Cardiac catheterization; *see* Heart catheterization

Cardiac failure; *see* Heart failure, congestive

Cardiac output

Pulsed Doppler transesophageal echocardiographic determination of cardiac output in human beings: comparison with thermolization technique (Stoddard et al). 1993;126:956-62 (Prog. cardiol.)

Valve area and cardiac output in aortic stenosis: quantification by magnetic resonance velocity mapping (Søndergaard et al). 1993;126:1156-64

Cardiac surgical scars; *see* Cicatrix

Cardiac tamponade

Dermatomyositis with pericardial tamponade and polymyositis with pericardial effusion (Yale et al). 1993;126:997-9 (Brief comm.)

Multiple myeloma involving the pericardium associated with cardiac tamponade and constrictive pericarditis (Santana et al). 1993;126:737-40 (Brief comm.)

Purulent pericarditis caused by group B streptococcus with pericardial tamponade (Karim et al). 1993;126:727-31 (Brief comm.)

Cardiac transplantation; *see* Heart transplantation

Cardiac volume

Effect of perindopril in rat cardiac volume overload (Arnal et al). 1993;126:775-81 (Symposium)

Cardiology

The cardiologist's approach to evaluation and management of the patient with essential hypertension (Phillips). 1993;126:648-66 (Curriculum cardiol.)

Cardiomyopathy

Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy (Lecarpentier et al). 1993;126:770-5 (Symposium)

Right ventricular cardiomyopathy in identical and nonidentical young twins (Buja et al). 1993;126:1187-93

Spectrum and outcome of congestive heart failure in a hospitalized population (Andersson and Waagstein). 1993;126:632-40

Cardiomyopathy, congestive

Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern (Schwengel et al). 1993;126:1182-6

Chagas' disease in North America (Reyes). 1993;126:1496 (Letter)

Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10

Doppler echocardiographic assessment of left ventricular filling in idiopathic dilated cardiomyopathy during a one-year follow-up: relation to the clinical course of disease (Werner et al). 1993;126:1408-16

Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy (Karkal et al). 1993;126:242-6 (Brief comm.)

New approach to the estimation of the extent of myocardial fibrosis in patients with dilated cardiomyopathy: use of signal-averaged electrocardiography (Yamada et al). 1993;126:626-31

Regression of a dilated cardiomyopathy after radiofrequency ablation of incessant supraventricular tachycardia (Corey et al). 1993;126:1469-73 (Brief comm.)

Cardiomyopathy, hypertrophic

Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10

Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction (Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)

Hypertrophic cardiomyopathy and increased number of CAG repeats in the androgen receptor gene (Kaneko et al). 1993;126:248-9 (Brief comm.)

Relationship between distribution of hypertrophy and electrocardiographic changes in hypertrophic cardiomyopathy (Usui et al). 1993;126:177-83

Cardioprotection; *see* Myocardial ischemia

Cardiopulmonary bypass

Emergency portable percutaneous cardiopulmonary bypass for left ventricular free wall rupture from myocardial infarction (Wanner and Lewin). 1993;126:1211-3 (Brief comm.)

Cardiopulmonary resuscitation

Interposed abdominal compression-cardiopulmonary resuscitation: Are we missing the mark in clinical trials? (Babbs). 1993;126:1035-41 (Editorial)

Cardiovascular diagnosis; *see* Diagnosis

Cardiovascular hemodynamics; *see* Hemodynamics

Cardiovascular risk factors; *see* Risk factors

Cardioversion; *see* Electric countershock

Cardioverter-defibrillators, implantable; *see* Defibrillators, implantable

Carotid arteries

Complex intraaortic debris in the absence of carotid disease in patients with embolic stroke (Rubin et al). 1993;126:233-4 (Brief comm.)

Carotid endarterectomy; *see* Endarterectomy, carotid

Catalase

High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model (Watanabe et al). 1993;126:840-6

Catecholamines

Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise (Ikeda et al). 1993;126:130-5

Proarrhythmia of nonantiarrhythmic drugs (Martyn et al). 1993;126:201-5 (Curriculum cardiol.)

Catheter ablation

Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus (Chiang et al). 1993;126:1213-6 (Brief comm.)

Radiofrequency catheter ablation of a posteroseptal accessory pathway within a coronary sinus diverticulum (Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)

Radiofrequency catheter ablation of an accessory pathway with discontinuous retrograde conduction: potential insight into mechanism of longitudinal dissociation (Chien and Lesh). 1993;126:712-5 (Brief comm.)

Radiofrequency catheter ablation of atrial flutter in a patient with postoperative congenital heart disease (Case et al). 1993;126:715-6 (Brief comm.)

Radiofrequency catheter ablation of the accessory pathway in the permanent form of junctional reciprocating tachycardia (Boyce et al). 1993;126:716-9 (Brief comm.)

Regression of a dilated cardiomyopathy after radiofrequency ablation of incessant supraventricular tachycardia (Corey et al). 1993;126:1469-73 (Brief comm.)

Usefulness of serial follow-up electrophysiologic studies in predicting late outcome of radiofrequency ablation for accessory pathways and atrioventricular nodal reentrant tachycardia (Chen et al). 1993;126:619-25

Catheter revascularization; see Myocardial revascularization**Catheterization, cardiac; see Heart catheterization****Caucasian race**

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

CAVA study

Coronary atherectomy versus angioplasty: the CAVA study (Feld et al). 1993;126:31-8

Central nervous system

CNS-mediated coronary spasm (Friedman) (Letter); (MacAlpin) (Reply). 1993;126:1490-1

Cerebral thromboembolization; see Thromboembolism**Cerebrovascular disorders**

Complex intraaortic debris in the absence of carotid disease in patients with embolic stroke (Rubin et al). 1993;126:233-4 (Brief comm.)

Low incidence of stroke in ambulatory patients with heart failure: a prospective study (Katz et al). 1993;126:141-6

Chagas cardiomyopathy

Immunohistochemical localization of laminin in the hearts of patients with chronic chagasic cardiomyopathy: relationship to thickening of basement membranes (Sanchez et al). 1993;126:1392-1401

Chagas disease

Chagas' disease in North America (Reyes). 1993;126:1496 (Letter)

Child

Characterization of the aortic echo-Doppler profile in normal children during maximal treadmill exercise (Cyran et al). 1993;126:1024-9 (Brief comm.)

Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents (Sanchez-Bayle et al). 1993;126:322-6

Massive chylopericardium due to congenital fistulas (Samaniog et al). 1993;126:1005-6 (Brief comm.)

China

Comparison of intimal thickening of Chinese and New Zealand coronary arteries (Sims et al). 1993;126:863-71

Cholesterol

Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction (Arora et al). 1993;126:225-8 (Brief comm.)

Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits (Tominaga et al). 1993;126:1049-58

Chondrosarcoma

Embolic chondrosarcoma: an unusual cause of pulmonary embolism (Leung et al). 1993;126:732-4 (Brief comm.)

Chromosome abnormalities

A unique chromosomal abnormality in idiopathic hypereosinophilic syndrome presenting with cardiac involvement (Wolz et al). 1993;126:246-8 (Brief comm.)

Chronic heart failure; see Heart failure, congestive**Chylopericardium; see Pericardium****Cicatrix**

Developmental differences in canine cardiac surgical scars (Denfield et al). 1993;126:382-9

Cigarettes; see Smoking**Cine magnetic resonance imaging; see Magnetic resonance imaging****Cinefilm-based geometric software; see Software****Circadian rhythm**

Alterations in heart rate variability and its circadian rhythm in hypertensive patients with left ventricular hypertrophy free of coronary artery disease (Chakko et al). 1993;126:1364-72

Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus (Murakawa et al). 1993;126:108-14

Clinical trials

Interposed abdominal compression-cardiopulmonary resuscitation: Are we missing the mark in clinical trials? (Babbs). 1993;126:1035-41 (Editorial)

Clonidine

Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension (Houston and Hays). 1993;126:918-23

CNS; see Central nervous system**Coagulation, laser; see Laser coagulation****Coil embolization; see Embolization, therapeutic****Collateral circulation**

Detection of major aortopulmonary collateral arteries by transthoracic echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)

Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction (Hirai et al). 1993;126:827-31

Myocardial ischemia is not a prerequisite for the stimulation of coronary collateral development (Cohen). 1993;126:847-55

The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size (Charney and Cohen). 1993;126:937-45

Color flow Doppler imaging; see Echocardiography, Doppler**Community hospitals; see Hospitals, community****Congenital defects; see Heart defects, congenital****Congenital fistula; see Fistula, congenital****Congestive heart failure; see Heart failure, congestive****Constrictive pericarditis; see Pericarditis, constrictive****Contrast echocardiography; see Echocardiography****Contrast media**

Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography (Yamaoka et al). 1993;126:1372-9

Cor triatriatum

Cor triatriatum in adults (Horowitz et al). 1993;126:472-3 (Brief comm.)

Coronary aneurysm

Coronary ectasia in Takayasu's arteritis (Noma et al). 1993;126:459-61 (Brief comm.)

Coronary angiography

Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting (Kahn). 1993;126:561-4

Clinical, angiographic, and procedural determinants of major and minor coronary dissection during angioplasty (Sharma et al). 1993;126:39-47

Coronary ectasia in Takayasu's arteritis (Noma et al). 1993;126:459-61 (Brief comm.)

Diagnostic considerations in patients with suspected coronary artery anomalies (Chu and Cheitlin). 1993;126:1427-38 (Curriculum cardiol.)

High-fidelity translesional pressure gradients during percutaneous transluminal coronary angioplasty: correlation with

Coronary angiography—Cont'd

- quantitative coronary angiography (Lamm et al). 1993;126:66-75
- Hypertrophic cardiomyopathy and increased number of CAG repeats in the androgen receptor gene (Kaneko et al). 1993;126:248-9 (Brief comm.)
- Magnetic resonance imaging compared with angiography in the evaluation of intermediate-term result of coarctation balloon angioplasty (Fawzy et al). 1993;126:1380-4
- Quantitative angiography during coronary angioplasty with a single angiographic view: a comparison of automated edge detection and videodensitometric techniques (Escaned et al). 1993;126:1326-33
- Restenosis revisited: insights provided by quantitative coronary angiography (Serruys et al). 1993;126:1243-67 (Editorial)
- Visual versus quantitative assessment of the severity of coronary artery stenoses: Can the angiographer's eye be reeducated? (Danchin et al). 1993;126:594-600

Coronary angioplasty, transluminal balloon; see Angioplasty, transluminal, percutaneous coronary

Coronary angioplasty guide wire, Doppler tipped; see Doppler guide wire

Coronary arterial loops; see Coronary vessel anomalies

Coronary arterial occlusions; see Arterial occlusive diseases

Coronary arteriosclerosis

- Comparison of the natural history of irregular and smooth coronary lesions: insights into the pathogenesis, progression, and prognosis of coronary atherosclerosis (Haft and Al-Zarka). 1993;126:551-61
- Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits (Tominaga et al). 1993;126:1049-58
- Local infusion balloon angioplasty to obviate restenosis compared with conventional balloon angioplasty in an experimental model of atherosclerosis (Stadius et al). 1993;126:47-56
- Mobile thrombi in atherosclerotic lesions of the thoracic aorta: the diagnostic impact of transesophageal echocardiography (Dee et al). 1993;126:707-10 (Brief comm.)
- Penetrating atherosclerotic aortic ulcers: the role of transesophageal echocardiography in diagnosis and clinical management (Movsowitz et al). 1993;126:745-7 (Brief comm.)

Coronary artery bypass

- Coronary subclavian steal syndrome (Samoil and Schwartz). 1993;126:1463-6 (Brief comm.)
- Nonsurgical (embolization) treatment of the coronary-internal mammary flow diversion phenomenon (Habbab and Amro). 1993;126:456-8 (Brief comm.)
- Prolonged bradyarrhythmias after isolated coronary artery bypass graft surgery (Emlein et al). 1993;126:1084-90
- Simultaneous assessment of left ventricular perfusion and function with technetium-99m sestamibi after coronary artery bypass grafting (Iskandrian et al). 1993;126:1199-203 (Prog. cardi.)
- Surgically treated case of complete obstruction of the left main coronary artery caused by Takayasu's arteritis (Takei et al). 1993;126:458-9 (Brief comm.)

Coronary artery diameter; see Coronary vessels, anatomy

Coronary artery disease; see Coronary disease

Coronary artery fistula; see Fistula

Coronary artery obstruction; see Coronary disease

Coronary artery size; see Coronary vessels, anatomy

Coronary atherectomy; see Atherectomy, coronary

Coronary circulation

- Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs (Nichols et al). 1993;126:285-92
- Validation of volumetric flow measurements by means of Doppler-tipped coronary angioplasty guide wire (Labovitz et al). 1993;126:1456-61 (Prog. cardi.)

Coronary collateral circulation; see Collateral circulation

Coronary disease

- Angioscopic evaluation of periprocedural and postprocedural abrupt closure after percutaneous coronary angioplasty (Sassower et al). 1993;126:444-50 (Prog. cardi.)
- Congenital left ventricular diverticulum with ventricular septal

Coronary disease—Cont'd

- defect, mitral and tricuspid regurgitation, and coronary disease (Yamashita et al). 1993;126:461-3 (Brief comm.)
- Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits (Tominaga et al). 1993;126:1049-58
- Immediate and 6-month follow-up results of coronary angioplasty for restenosis: analysis of factors predicting recurrent clinical restenosis (Piessens et al). 1993;126:565-70
- Myocardial ischemia is not a prerequisite for the stimulation of coronary collateral development (Cohen). 1993;126:847-55
- Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus (Murakawa et al). 1993;126:108-14
- Pulmonary infundibular stenosis, coronary artery disease, and aortic regurgitation caused by mediastinal radiation (Horimoto et al). 1993;126:1002-5 (Brief comm.)
- Restenosis revisited: insights provided by quantitative coronary angiography (Serruys et al). 1993;126:1243-67 (Editorial)

Coronary disease, complications

- Dynamics of the QT interval in patients with exercise-induced ventricular tachycardia in normal and abnormal hearts (Gill et al). 1993;126:1357-63

Coronary disease, diagnosis

- Biplane transesophageal pacing echocardiography compared with dipyridamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease (Norris et al). 1993;126:676-85 (Prog. cardi.)
- Medical diagnosis of type A behavior (Friedman and Ghandour). 1993;126:607-18
- Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context (Krishnan et al). 1993;126:578-86
- Sensitivity and reproducibility of the instantaneous hyperemic flow versus pressure slope index compared to coronary flow reserve for the assessment of stenosis severity (Cleary et al). 1993;126:57-65
- ST0 or ST60 (Rodriguez et al). 1993;126:752-4 (Brief comm.)
- Usefulness of exercise SPECT-thallium to detect asymptomatic restenosis in patients who had angina before coronary angioplasty (Marie et al). 1993;126:571-7
- Visual versus quantitative assessment of the severity of coronary artery stenoses: Can the angiographer's eye be reeducated? (Danchin et al). 1993;126:594-600

Coronary disease, etiology

- Acute occlusion of the left anterior descending coronary artery by shotgun pellets (Nerantzis et al). 1993;126:452-3 (Brief comm.)
- Coronary ectasia in Takayasu's arteritis (Noma et al). 1993;126:459-61 (Brief comm.)
- Low-nicotine cigarettes on CAD (Galante et al) (Letter); (Moyle et al) (Reply). 1993;126:1491
- Surgically treated case of complete obstruction of the left main coronary artery caused by Takayasu's arteritis (Takei et al). 1993;126:458-9 (Brief comm.)

Coronary disease, physiopathology

- Exercise-induced QRS prolongation in patients with coronary artery disease: a marker of myocardial ischemia (Michaelides et al). 1993;126:1320-5

Coronary disease, prevention and control

- Coronary restenosis: evaluation of a restenosis injury index in a swine model (Bonan et al). 1993;126:1334-40

Coronary dissection; see Dissection

Coronary flow reserve; see Hemodynamics

Coronary-internal mammary flow diversion; see Internal mammary-coronary artery anastomosis

Coronary measurement software; see Software

Coronary risk factors; see Risk factors

Coronary sinus

- Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus (Chiang et al). 1993;126:1213-6 (Brief comm.)
- Radiofrequency catheter ablation of a posteroseptal accessory pathway within a coronary sinus diverticulum (Tebbenhann et al). 1993;126:1216-9 (Brief comm.)

Coronary spasm; see Spasm

Coronary stenosis; see Coronary disease

Coronary stenting; see Stents

Coronary subclavian steal syndrome; see Subclavian steal syndrome

Coronary vasomotion; see Vasomotor system

Coronary vasospasm

Role of coronary vasospasm in the pathogenesis of myocardial infarction: study in patients with no significant coronary stenosis (Fukai et al). 1993;126:1305-11

Coronary vessel anomalies

Angioplasty of the right coronary artery with origin of all three coronary arteries from a single ostium in the right sinus of Valsalva (Chan et al). 1993;126:985-7 (Brief comm.)

Diagnostic considerations in patients with suspected coronary artery anomalies (Chu and Cheitlin). 1993;126:1427-38 (Curriculum cardiol.)

Echocardiographic diagnosis of total anomalous pulmonary venous connection (Goswami et al). 1993;126:433-40

Multiple coronary arterial loops as a cause of myocardial ischemia (Bashour et al). 1993;126:219-21 (Brief comm.)

Percutaneous coil embolization of superfluous vascular connections in patients with congenital heart disease (Rothman and Tong). 1993;126:206-13 (Prog. cardiol.)

Coronary vessels

Are reciprocal changes caused by ischemia at a distance or merely a benign electric phenomenon? A PTCA study (Tabbalat and Haft). 1993;126:95-103

Changing vasomotor responses of coronary arteries to nifedipine (Raby et al). 1993;126:333-8

Comparison of intimal thickening of Chinese and New Zealand coronary arteries (Sims et al). 1993;126:863-71

In vivo radiofrequency thermal balloon angioplasty of porcine coronary arteries: histologic effects and safety (Fram et al). 1993;126:969-78 (Prog. cardiol.)

Coronary vessels, anatomy

Coronary artery diameter and coronary risk factors: a study with ultrafast computed tomography (Guerra et al). 1993;126:600-6

Coronary artery size in mitral regurgitation and its regression after mitral valve surgery (Vassalli et al). 1993;126:1091-8

Prediction of sudden cardiac arrest: risk stratification by anatomic substrate (Vlay et al). 1993;126:807-15

Coronary vessels, injuries

Coronary restenosis: evaluation of a restenosis injury index in a swine model (Bonan et al). 1993;126:1334-40

Correction

Atrial natriuretic factor release during rapid ventricular pacing: interplay between autonomic and hemodynamic stimulants (Twidale et al) (1993;125:1638-44). 1993;126:487

Correspondence; see Letters

Creatine kinase

Diltiazem myopathy (Ahmad). 1993;126:1494-5 (Letter)

Myocardial reperfusion can be predicted by myoglobin/creatinine kinase ratio of a single blood sample obtained at the time of admission (Abe et al). 1993;126:279-85

Noninvasive detection of reperfusion after thrombolysis based on serum creatine kinase MB changes and clinical variables (Ohman et al). 1993;126:819-26

Curriculum in cardiology

Curriculum in cardiology. 1993;126:189-205, 441-3, 641-66, 930-55, 1194-8, 1427-38

Cutaneous blood mass; see Blood

Cutaneous vasomotion; see Vasomotor system

D

d-sotalol

Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol (Twidale et al). 1993;126:122-9

Death, sudden, cardiac

Developmental differences in canine cardiac surgical scars (Denfield et al). 1993;126:382-9

Nonsustained ventricular tachycardia: identification and management of high-risk patients (Pires and Huang). 1993;126:189-200 (Curriculum cardiol.)

Prediction of sudden cardiac arrest: risk stratification by anatomic substrate (Vlay et al). 1993;126:807-15

Defibrillation; see Electric countershock

Defibrillators, implantable

Innovative emergency defibrillation methods for refractory ventricular fibrillation in a variety of hospital settings (Coenen). 1993;126:962-8 (Prog. cardiol.)

Defibrillators, implantable—Cont'd

Submammary implantation of a cardioverter-defibrillator with a nonthoracotomy lead system (Kolettis et al). 1993;126:1222-3 (Brief comm.)

Deoxycoformycin

Adenosine deaminase inhibition is not cardioprotective in the rat (Li and Kloner). 1993;126:1293-8

Dermatomyositis

Dermatomyositis with pericardial tamponade and polymyositis with pericardial effusion (Yale et al). 1993;126:997-9 (Brief comm.)

Diabetes mellitus

Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus (Murakawa et al). 1993;126:108-14

Diabetes mellitus, insulin-dependent

Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götzsche et al). 1993;126:1417-26

Diagnosis

Magnetic resonance measurement of velocity and flow: technique, validation, and cardiovascular applications (Rebergen et al). 1993;126:1439-56 (Prog. cardiol.)

Medical diagnosis of type A behavior (Friedman and Ghandour). 1993;126:607-18

Diagnostic errors

Negative air-contrast test does not exclude the presence of patent foramen ovale by transesophageal echocardiography (Movsowitz et al). 1993;126:1031-2 (Brief comm.)

Visual versus quantitative assessment of the severity of coronary artery stenoses: Can the angiographer's eye be reeducated? (Danchin et al). 1993;126:594-600

Diagnostic imaging

Atrial septal aneurysm simulating a left atrial mass diagnosed by transesophageal echocardiography (Mera et al). 1993;126:1224-5 (Brief comm.)

Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging (Villegas et al). 1993;126:103-7

Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Echocardiographic diagnosis of aneurysm of the sinus of Valsalva (Dev et al). 1993;126:930-6 (Curriculum cardiol.)

Echocardiographic diagnosis of total anomalous pulmonary venous connection (Goswami et al). 1993;126:433-40

Ovarian vein thrombosis (Simons et al). 1993;126:641-7 (Curriculum cardiol.)

Penetrating atherosclerotic aortic ulcers: the role of transesophageal echocardiography in diagnosis and clinical management (Movsowitz et al). 1993;126:745-7 (Brief comm.)

Subacute ventricular free wall rupture complicating myocardial infarction (Raitt et al). 1993;126:946-55 (Curriculum cardiol.)

^{99m}Tc-antimyosin antibody imaging for the detection of acute myocardial infarction in human beings (Senior et al). 1993;126:536-42

Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation (Marcus and Wong). 1993;126:1482-4 (Brief comm.)

Use of Doppler guide wire for intraluminal diagnosis to facilitate coronary intervention (Heuser et al). 1993;126:213-8 (Prog. cardiol.)

Diaphragm muscle; see Muscles

Diastole

Diastolic left ventricular dysfunction leading to severe reversible pulmonary hypertension (Kessler et al). 1993;126:234-5 (Brief comm.)

Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction (Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)

Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Diastole—Cont'd

Timing of recipient atrial contraction: a major determinant of transmitral diastolic flow in orthotopic cardiac transplantation (Triposkiadis et al). 1993;126:1175-81

Diet

Long-term dietary fish oil supplementation protects against ischemia-reperfusion-induced myocardial dysfunction in isolated rat hearts (Yang et al). 1993;126:1287-92

Digoxin

Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter (Shettigar et al). 1993;126:368-74

Dilated cardiomyopathy; see Cardiomyopathy, congestive

Diltiazem

Diltiazem myopathy (Ahmad). 1993;126:1494-5 (Letter)
Hematologic complications of diltiazem overdose (Fang and Tsai). 1993;126:1017-8 (Brief comm.)

Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration (Becker et al). 1993;126:11-4

Ischemia in collateral-dependent myocardium: effects of nifedipine and diltiazem in man (Pupita et al). 1993;126:86-94

Dipyridamole

Biplane transesophageal pacing echocardiography compared with dipyridamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease (Norris et al). 1993;126:676-85 (Prog. cardiol.)

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Directional coronary atherectomy; see Atherectomy, coronary

Disease models, animal

Coronary restenosis: evaluation of a restenosis injury index in a swine model (Bonan et al). 1993;126:1334-40

Heterogeneity of reperfusion after reversible regional myocardial ischemia in a canine model (Louie et al). 1993;126:514-20

High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model (Watanabe et al). 1993;126:840-6

In vivo radiofrequency thermal balloon angioplasty of porcine coronary arteries: histologic effects and safety (Fram et al). 1993;126:969-78 (Prog. cardiol.)

Dissection

Acute pulmonary edema due to pulmonary venous obstruction by left atrial dissection (Grech et al). 1993;126:734-5 (Brief comm.)

Aorticocameral fistula: a rare complication of aortic dissection (Lindsay). 1993;126:441-3 (Curriculum cardiol.)

Clinical, angiographic, and procedural determinants of major and minor coronary dissection during angioplasty (Sharma et al). 1993;126:39-47

Histopathologic correlation of the three-layered intravascular ultrasound appearance of normal adult human muscular arteries (Siegel et al). 1993;126:872-8

Diverticulum

Congenital fibrous left ventricular diverticulum (Teske et al). 1993;126:1233-5 (Brief comm.)

Congenital left ventricular diverticulum with ventricular septal defect, mitral and tricuspid regurgitation, and coronary disease (Yamashita et al). 1993;126:461-3 (Brief comm.)

Radiofrequency catheter ablation of a posteroseptal accessory pathway within a coronary sinus diverticulum (Tebbenjohanns et al). 1993;126:1216-9 (Brief comm.)

DNA

Tuberculous pericarditis presumably diagnosed by polymerase chain reaction analysis (Seino et al). 1993;126:249-51 (Brief comm.)

Doppler echocardiography; see Echocardiography, Doppler

Doppler guide wire

De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angioscopy (Jain et al). 1993;126:453-6 (Brief comm.)

Use of Doppler guide wire for intraluminal diagnosis to facilitate coronary intervention (Heuser et al). 1993;126:213-8 (Prog. cardiol.)

Doppler guide wire—Cont'd

Validation of volumetric flow measurements by means of Doppler-tipped coronary angioplasty guide wire (Labovitz et al). 1993;126:1456-61 (Prog. cardiol.)

Doppler transesophageal echocardiography; see Echocardiography, transesophageal

Dose-response relationship, drug

High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model (Watanabe et al). 1993;126:840-6

Drainage

Usefulness of transesophageal Doppler echocardiography in the surgical drainage of a loculated purulent pericardial effusion (Golub et al). 1993;126:724-7 (Brief comm.)

Drinking

Effects of hydration on mitral valve prolapse (Lax et al). 1993;126:415-8

Drug combinations

Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter (Shettigar et al). 1993;126:368-74

Therapeutic approach to unstable angina: nitroglycerin, heparin, and combined therapy (Jaffrani et al). 1993;126:1239-42 (Editorial)

Drug evaluation

Evaluation of the need to modify antiarrhythmic therapy because of drug intolerance or inefficacy in patients evaluated by electrophysiology study (Ujhelyi et al). 1993;126:352-9

Drug tolerance

Evaluation of the need to modify antiarrhythmic therapy because of drug intolerance or inefficacy in patients evaluated by electrophysiology study (Ujhelyi et al). 1993;126:352-9

Drugs, adverse effects

Proarrhythmia of nonantiarrhythmic drugs (Martyn et al). 1993;126:201-5 (Curriculum cardiol.)

E

Echocardiography

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Detection of left-to-right shunt in atrial septal defect by negative contrast echocardiography: a comparison of transthoracic and transesophageal approach (Konstantinides et al). 1993;126:909-17

Determination of ventricular elastance with echocardiography: A reality? (Prabhu and Zabalgoitia). 1993;126:500-2 (Editorial)

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Echocardiographic diagnosis of aneurysm of the sinus of Valsalva (Dev et al). 1993;126:930-6 (Curriculum cardiol.)

Echocardiographic diagnosis of total anomalous pulmonary venous connection (Goswami et al). 1993;126:433-40

Embolic chondrosarcoma: an unusual cause of pulmonary embolism (Leung et al). 1993;126:732-4 (Brief comm.)

Evolution of echocardiographic modalities in detection of post-myocardial infarction ventricular septal defect and papillary muscle rupture: study of 62 patients (Kishon et al). 1993;126:667-75 (Prog. cardiol.)

Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy (Karkal et al). 1993;126:242-6 (Brief comm.)

Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship (Dávila-Román et al). 1993;126:155-60

Percutaneous balloon mitral valvuloplasty: analysis of echocardiographic and other variables related to outcome (Goswami et al). 1993;126:1147-51

Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transesophageal echocardiography (Groundstroem et al). 1993;126:702-5 (Brief comm.)

Spectrum of right heart involvement in patients with ventricular tachycardia unrelated to coronary artery disease or left ventricular dysfunction (Orlov et al). 1993;126:1348-56

Echocardiography—Cont'd

- Subacute ventricular free wall rupture complicating myocardial infarction (Raitt et al). 1993;126:946-55 (Curriculum cardi.)
- Systemic embolization during TTE (Kotler) (Letter); (Pitrolo) (Reply). 1993;126:1492

Echocardiography, Doppler

- Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götsche et al). 1993;126:1417-26
- Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern (Schwengel et al). 1993;126:1182-6
- Age-related changes in left and right ventricular filling velocity profiles and their relationship in normal subjects (Iwase et al). 1993;126:419-26
- Characterization of the aortic echo-Doppler profile in normal children during maximal treadmill exercise (Cyran et al). 1993;126:1024-9 (Brief comm.)
- Cine magnetic resonance imaging and color Doppler flow mapping displays of flow velocity, spatial acceleration, and jet formation: a comparative in vitro study (Simpson et al). 1993;126:1165-74
- Doppler-detected aortic coarctation with PDA (Cullen and Redington) (Letter); (Ramaciotti) (Reply). 1993;126:1493-4
- Doppler echocardiographic assessment of left ventricular filling in idiopathic dilated cardiomyopathy during a one-year follow-up: relation to the clinical course of disease (Werner et al). 1993;126:1408-16
- Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction (Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)
- Echocardiographic diagnosis of total anomalous pulmonary venous connection (Goswami et al). 1993;126:433-40
- Estimation of rate of left ventricular pressure rise by Doppler echocardiography: its hemodynamic validation (Pai et al). 1993;126:240-2 (Brief comm.)
- Exercise capacity and hemodynamics in systemic lupus erythematosus: a Doppler echocardiographic exercise study (Winslow et al). 1993;126:410-4
- Limitations of color flow Doppler imaging in the quantification of valvular regurgitation: velocity of regurgitant jet, rather than volume, determines size of color Doppler image (Losordo et al). 1993;126:168-76

Echocardiography, transesophageal

- Abnormal postoperative interventricular motion: new intraoperative transesophageal echocardiographic evidence supports a novel hypothesis (Wranne et al). 1993;126:161-7
- Atrial septal aneurysm simulating a left atrial mass diagnosed by transesophageal echocardiography (Mera et al). 1993;126:1224-5 (Brief comm.)
- Biplane transesophageal pacing echocardiography compared with dipyrindamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease (Norris et al). 1993;126:676-85 (Prog. cardi.)
- Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transesophageal echocardiographic findings of left atrial thrombus (Salka et al). 1993;126:722-4 (Brief comm.)
- Complex intraaortic debris in the absence of carotid disease in patients with embolic stroke (Rubin et al). 1993;126:233-4 (Brief comm.)
- Detection of left-to-right shunt in atrial septal defect by negative contrast echocardiography: a comparison of transthoracic and transesophageal approach (Konstantinides et al). 1993;126:909-17
- Detection of major aortopulmonary collateral arteries by transesophageal echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)
- Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)
- Direct visualization of left ventricular free wall rupture by transesophageal echocardiography in acute myocardial infarction (Deshmukh et al). 1993;126:475-7 (Brief comm.)
- Evaluation of transesophageal echocardiography before cardioversion of atrial fibrillation and flutter in nonanticoagulated patients (Black et al). 1993;126:375-81

Echocardiography, transesophageal—Cont'd

- Four-valve endocarditis resulting from *Staphylococcus aureus* diagnosed by biplane transesophageal echocardiography (Bernstein et al). 1993;126:251-4 (Brief comm.)
- Mobile thrombi in atherosclerotic lesions of the thoracic aorta: the diagnostic impact of transesophageal echocardiography (Dee et al). 1993;126:707-10 (Brief comm.)
- Negative air-contrast test does not exclude the presence of patent foramen ovale by transesophageal echocardiography (Movsowitz et al). 1993;126:1031-2 (Brief comm.)
- Penetrating atherosclerotic aortic ulcers: the role of transesophageal echocardiography in diagnosis and clinical management (Movsowitz et al). 1993;126:745-7 (Brief comm.)
- Pharmacologic abolition of severe mitral regurgitation associated with dynamic left ventricular outflow tract obstruction after mitral valve repair: confirmation by transesophageal echocardiography (Webster et al). 1993;126:480-3 (Brief comm.)
- Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transesophageal echocardiography (Groundstroem et al). 1993;126:702-5 (Brief comm.)
- Pulsed Doppler transesophageal echocardiographic determination of cardiac output in human beings: comparison with thermodilution technique (Stoddard et al). 1993;126:956-62 (Prog. cardi.)
- Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm (Lee et al). 1993;126:1401-7
- Right atrial angiosarcoma causing a coronary artery fistula: diagnosis by transesophageal echocardiography (Sherman et al). 1993;126:254-6 (Brief comm.)
- Right ventricular outflow tract obstruction: augmented diagnosis with biplane transesophageal echocardiography (Chazouilleres et al). 1993;126:477-80 (Brief comm.)
- Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation (Marcus and Wong). 1993;126:1482-4 (Brief comm.)
- Transesophageal echocardiography in adults with congenital cardiopathies (Vargas-Barron et al). 1993;126:426-32
- Transesophageal echocardiography in patients with heparin-induced thrombocytopenia and thrombosis (Movsowitz et al). 1993;126:1011-3 (Brief comm.)
- Transverse sinus by TEE (Posma et al) (Letter); (Stoddard) (Reply). 1993;126:1491-2
- Usefulness of transesophageal Doppler echocardiography in the surgical drainage of a loculated purulent pericardial effusion (Golub et al). 1993;126:724-7 (Brief comm.)

Edema, pulmonary; see Pulmonary edema**Edge detection algorithm; see Algorithms****Edge detection technique; see Coronary angiography****Editorials**

- Editorials. 1993;126:262-29, 488-502, 750-4, 1035-47, 1239-67, 1498-502

Editor's page

- Editor's page. 1993;126:503-6

Education

- Interventional electrophysiology—state-of-the-art 1993 (Lesh). 1993;126:686-98 (Prog. cardi.)

Elastance, ventricular; see Ventricular function**Elderly; see Aged****Electric countershock**

- Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transesophageal echocardiographic findings of left atrial thrombus (Salka et al). 1993;126:722-4 (Brief comm.)
- The effect of cardioversion on exercise capacity in patients with atrial fibrillation (Ueshima et al). 1993;126:1021-4 (Brief comm.)
- Evaluation of transesophageal echocardiography before cardioversion of atrial fibrillation and flutter in nonanticoagulated patients (Black et al). 1993;126:375-81
- Innovative emergency defibrillation methods for refractory ventricular fibrillation in a variety of hospital settings (Cohen). 1993;126:962-8 (Prog. cardi.)
- Submammary implantation of a cardioverter-defibrillator with a nonthoracotomy lead system (Kolettis et al). 1993;126:1222-3 (Brief comm.)

Electrocardiography

- Are reciprocal changes caused by ischemia at a distance or merely a benign electric phenomenon? A PTCA study (Tabalat and Haft). 1993;126:95-103

Electrocardiography—Cont'd

- Characteristics of Ca^{2+} -activated K^+ channels isolated from the left ventricle of a patient with idiopathic long QT syndrome (Krause et al). 1993;126:1134-41
- Clinical evaluation of the use-dependent QRS prolongation and the reverse use-dependent QT prolongation of class I and class III antiarrhythmic agents and their value in predicting efficacy (Sadanaga et al). 1993;126:114-21
- Determinants of inducible ventricular tachycardia in patients with clinical ventricular tachyarrhythmia and no apparent structural heart disease (Brodsky et al). 1993;126:1113-20
- Dynamics of the QT interval in patients with exercise-induced ventricular tachycardia in normal and abnormal hearts (Gill et al). 1993;126:1357-63
- The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32
- Electrocardiographic patterns relative to initiating mechanisms of exercise-induced ventricular tachycardia (Tuininga et al). 1993;126:359-67
- Exercise-induced QRS prolongation in patients with coronary artery disease: a marker of myocardial ischemia (Michaelides et al). 1993;126:1320-5
- New approach to the estimation of the extent of myocardial fibrosis in patients with dilated cardiomyopathy: use of signal-averaged electrocardiography (Yamada et al). 1993;126:626-31
- Peripartum myocardial infarction (Taylor et al). 1993;126:1462-3 (Brief comm.)
- Prognostic significance of electrocardiographic persistent ST depression in patients with their first myocardial infarction in the placebo arm of the Beta Blocker Heart Attack Trial (Gheorghade et al). 1993;126:271-8
- Prolonged bradyarrhythmias after isolated coronary artery bypass graft surgery (Emlein et al). 1993;126:1084-90
- QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant (Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)
- Relationship between distribution of hypertrophy and electrocardiographic changes in hypertrophic cardiomyopathy (Usui et al). 1993;126:177-83
- The relationship of inferior ST depression, lateral ST elevation, and left precordial ST elevation to myocardium at risk in acute anterior myocardial infarction (Fletcher et al). 1993;126:526-35
- Reversible left ventricular dysfunction after subarachnoid hemorrhage (Handlin et al). 1993;126:235-40 (Brief comm.)
- ST0 or ST60 (Rodriguez et al). 1993;126:752-4 (Brief comm.)
- Sudden increase of the ST segment elevation at time of reperfusion predicts extensive infarcts in patients with intravenous thrombolysis (Dissmann et al). 1993;126:832-9

Electrocardiography, ambulatory

- Response of the QT-sensing rate-adaptive ventricular pacemaker to mental stress (Frais et al). 1993;126:1219-22 (Brief comm.)

Electron microscopy; see Microscopy, electron

Electrophysiology

- Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients (Wu et al). 1993;126:1341-8
- Determinants of inducible ventricular tachycardia in patients with clinical ventricular tachyarrhythmia and no apparent structural heart disease (Brodsky et al). 1993;126:1113-20
- Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates (Newman et al). 1993;126:1106-12
- Evaluation of the need to modify antiarrhythmic therapy because of drug intolerance or inefficacy in patients evaluated by electrophysiology study (Ujhelyi et al). 1993;126:352-9
- Interventional electrophysiology—state-of-the-art 1993 (Lesh). 1993;126:686-98 (Prog. cardiol.)
- Invasive electrophysiologic evaluation in octogenarians: Is age a limiting factor? (Wagshal et al). 1993;126:1142-6
- Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus (Chiang et al). 1993;126:1213-6 (Brief comm.)
- Role of a long-short sequence for initiation of atrioventricular reentry in Wolff-Parkinson-White syndrome (Yamashita et al). 1993;126:742-4 (Brief comm.)

Electrophysiology—Cont'd

- Usefulness of serial follow-up electrophysiologic studies in predicting late outcome of radiofrequency ablation for accessory pathways and atrioventricular nodal reentrant tachycardia (Chen et al). 1993;126:619-25
- Embolic stroke; see Cerebrovascular disorders**
- Embolism**
 - Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction (Arora et al). 1993;126:225-8 (Brief comm.)
 - Systemic embolization during TTE (Kotler) (Letter); (Pitrolo) (Reply). 1993;126:1492
- Embolism, pulmonary; see Pulmonary embolism**
- Embolization, therapeutic**
 - Nonsurgical (embolization) treatment of the coronary-internal mammary flow diversion phenomenon (Habbab and Amro). 1993;126:456-8 (Brief comm.)
 - Percutaneous coil embolization of superfluous vascular connections in patients with congenital heart disease (Rothman and Tong). 1993;126:206-13 (Prog. cardiol.)
- Emergency medical services**
 - Emergency portable percutaneous cardiopulmonary bypass for left ventricular free wall rupture from myocardial infarction (Wanner and Lewin). 1993;126:1211-3 (Brief comm.)
- Enalapril**
 - Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)
- Endarterectomy, carotid**
 - Percutaneous transluminal angioplasty of the innominate artery combined with carotid endarterectomy (Iannone et al). 1993;126:1466-9 (Brief comm.)
- Endocarditis**
 - Four-valve endocarditis resulting from *Staphylococcus aureus* diagnosed by biplane transesophageal echocardiography (Bernstein et al). 1993;126:251-4 (Brief comm.)
- Endothelial dysfunction; see Endothelium**
- Endothelins**
 - Do arterial endothelin 1 levels affect local arterial stiffness? (Heintz et al). 1993;126:987-9 (Brief comm.)
 - Endothelin-1 and atrial natriuretic peptide in septic shock (Mitaka et al). 1993;126:466-8 (Brief comm.)
 - Plasma endothelin and pulmonary pressures in patients with congestive heart failure (Cacoub et al). 1993;126:1484-8 (Brief comm.)
 - Release of immunoreactive endothelin from the heart during percutaneous transluminal coronary angioplasty (Malatino et al). 1993;126:700-2 (Brief comm.)
- Endothelium**
 - Assessment of coronary vasomotion by intracoronary ultrasound (Dupouy et al). 1993;126:76-85
 - Endothelial dysfunction after reperfusion (Hansen) (Letter); (Lefer et al) (Reply). 1993;126:1489
 - Endothelial dysfunction in acute myocardial infarction after reperfusion (Bridges et al). 1993;126:451-2 (Brief comm.)
 - Endothelial function in congestive heart failure (Drexler et al). 1993;126:761-3 (Symposium)
 - Inhibition of endothelin-dependent vasorelaxation by sickle erythrocytes (Mosseri et al). 1993;126:338-46
- Endothelium-derived relaxing factor**
 - Inhibition of endothelin-dependent vasorelaxation by sickle erythrocytes (Mosseri et al). 1993;126:338-46
- Enteroviruses**
 - Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10
- Enzyme-linked immunosorbent assay**
 - Elevated plasma interleukin-6 levels in patients with acute myocardial infarction (Miyao et al). 1993;126:1299-304
- Eosinophilia**
 - A unique chromosomal abnormality in idiopathic hypereosinophilic syndrome presenting with cardiac involvement (Wolz et al). 1993;126:246-8 (Brief comm.)
- Epicardial lipoma; see Lipoma**
- Epinephrine**
 - Reversal of refractory hypotension with intracoronary epinephrine during coronary angioplasty (Kahn and Hartzler). 1993;126:463-6 (Brief comm.)
- Epoprostenol**
 - Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs (Nichols et al). 1993;126:285-92

Equipment and supplies

- Exercise and morphologic comparison of chronic atrial fibrillation and normal sinus rhythm (Ueshima et al). 1993;126:260-1 (Brief comm.)
- High-fidelity translesional pressure gradients during percutaneous transluminal coronary angioplasty: correlation with quantitative coronary angiography (Lamm et al). 1993;126:66-75
- Stethoscopic and phonocardiographic devices: historical and future perspectives (Selig). 1993;126:262-8 (Editorial)
- Submammary implantation of a cardioverter-defibrillator with a nonthoracotomy lead system (Koletis et al). 1993;126:1222-3 (Brief comm.)
- Umbilical vein cardiac catheterization (Saxena et al) (Letter); (Appleton et al) (Reply). 1993;126:1494
- Validation of volumetric flow measurements by means of Doppler-tipped coronary angioplasty guide wire (Labovitz et al). 1993;126:1456-61 (Prog. cardiol.)

Equipment safety

- Risk factors and safety of pulsed dye laser irradiation in the pulmonary arteries (Steg et al). 1993;126:1477-80 (Brief comm.)

Erythrocytes

- Inhibition of endothelium-dependent vasorelaxation by sickle erythrocytes (Mosseri et al). 1993;126:338-46

Esmolol

- Combined use of esmolol and digoxin in the acute treatment of atrial fibrillation or flutter (Shettigar et al). 1993;126:368-74

Essential hypertension; see Hypertension**Ethnic groups**

- Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Exercise test

- Characterization of the aortic echo-Doppler profile in normal children during maximal treadmill exercise (Cyran et al). 1993;126:1024-9 (Brief comm.)
- Clinical evaluation of the use-dependent QRS prolongation and the reverse use-dependent QT prolongation of class I and class III antiarrhythmic agents and their value in predicting efficacy (Sadanaga et al). 1993;126:114-21
- Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106
- Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging (Villegas et al). 1993;126:103-7
- Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62
- Dynamics of the QT interval in patients with exercise-induced ventricular tachycardia in normal and abnormal hearts (Gill et al). 1993;126:1357-63
- Early exercise testing after acute myocardial infarction in the elderly: clinical evaluation and prognostic significance (Ciaroni et al). 1993;126:304-11
- Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake (Kodama et al). 1993;126:587-93
- The effect of cardioversion on exercise capacity in patients with atrial fibrillation (Ueshima et al). 1993;126:1021-4 (Brief comm.)
- The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32
- Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise (Ikeda et al). 1993;126:130-5
- Electrocardiographic patterns relative to initiating mechanisms of exercise-induced ventricular tachycardia (Tuininga et al). 1993;126:359-67
- Exercise and morphologic comparison of chronic atrial fibrillation and normal sinus rhythm (Ueshima et al). 1993;126:260-1 (Brief comm.)
- Exercise capacity and hemodynamics in systemic lupus erythematosus: a Doppler echocardiographic exercise study (Winslow et al). 1993;126:410-4
- Exercise-induced QRS prolongation in patients with coronary artery disease: a marker of myocardial ischemia (Michaelides et al). 1993;126:1320-5

Exercise test—Cont'd

- Is exercise testing safe in patients treated with flecainide for atrial arrhythmia? (Blatt et al). 1993;126:268-9 (Editorial)
- Metabolic characteristics of hypertension: importance of positive family history (Neutel et al). 1993;126:924-9
- ST0 or ST60 (Rodriguez et al). 1993;126:752-4 (Brief comm.)
- Successful very early in-office treatment of stress test-induced myocardial infarction with anistreplase (Wrisley et al). 1993;126:699 (Brief comm.)
- Usefulness of exercise SPECT-thallium to detect asymptomatic stenosis in patients who had angina before coronary angioplasty (Marie et al). 1993;126:571-7

Experimental autoimmune myocarditis; see Myocarditis
Experimental cardiomyopathy; see Cardiomyopathy
Experimental model; see Models, theoretical
Extracorporeal shock wave lithotripsy; see Lithotripsy

F**Factor analysis, statistical**

- Immediate and 6-month follow-up results of coronary angioplasty for restenosis: analysis of factors predicting recurrent clinical restenosis (Piessens et al). 1993;126:565-70

Failing human myocardium; see Heart failure, congestive

Familial calcification; see Calcinosis

Family

- Metabolic characteristics of hypertension: importance of positive family history (Neutel et al). 1993;126:924-9

Femoral artery

- Brachial approach for intracoronary stent implantation: a feasibility study (Resar et al). 1993;126:300-4

Fibrinogen

- Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents (Sanchez-Bayle et al). 1993;126:322-6

Fibrosis

- New approach to the estimation of the extent of myocardial fibrosis in patients with dilated cardiomyopathy: use of signal-averaged electrocardiography (Yamada et al). 1993;126:626-31

Fibrous left ventricular diverticulum; see Diverticulum

Firearms

- Acute occlusion of the left anterior descending coronary artery by shotgun pellets (Nerantzis et al). 1993;126:452-3 (Brief comm.)

Fish oil

- Long-term dietary fish oil supplementation protects against ischemia-reperfusion-induced myocardial dysfunction in isolated rat hearts (Yang et al). 1993;126:1287-92

Fistula

- Aorticocaval fistula: a rare complication of aortic dissection (Lindsay). 1993;126:441-3 (Curriculum cardi.)
- Right atrial angiosarcoma causing a coronary artery fistula: diagnosis by transesophageal echocardiography (Sherman et al). 1993;126:254-6 (Brief comm.)

Fistula, congenital

- Massive chylopericardium due to congenital fistulas (Samaniego et al). 1993;126:1005-6 (Brief comm.)

FK506

- FK506 therapy of experimental autoimmune myocarditis after onset of the disease (Kodama et al). 1993;126:1385-92

Flail tricuspid valve; see Tricuspid valve

Flecainide

- Is exercise testing safe in patients treated with flecainide for atrial arrhythmia? (Blatt et al). 1993;126:268-9 (Editorial)

Flosequinan

- Acute and long-term effects of flosequinan in patients with chronic cardiac failure (Marchionni et al). 1993;126:147-54

Flow velocity; see Blood flow velocity

Follow-up studies

- Immediate and 6-month follow-up results of coronary angioplasty for restenosis: analysis of factors predicting recurrent clinical restenosis (Piessens et al). 1993;126:565-70

Fontan operation

- Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation (Marcus and Wong). 1993;126:1482-4 (Brief comm.)

Foramen ovale, patent; see Heart septal defects, atrial
Force-frequency relationship; see Heart conduction system

Fraternal twins; see Twins

Furosemide

Acute effects of captopril on the renal actions of furosemide in patients with chronic heart failure (McLay et al). 1993;126:879-86

G

Gastrointestinal system

Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension (Houston and Hays). 1993;126:918-23

Genes

Hypertrophic cardiomyopathy and increased number of CAG repeats in the androgen receptor gene (Kaneko et al). 1993;126:248-9 (Brief comm.)

GITS; see Gastrointestinal system

Group B streptococcus; see *Streptococcus agalactiae*

H

Head-up tilt table test; see Tilt table test

Heart, anatomy

Transverse sinus by TEE (Posma et al) (Letter); (Stoddard) (Reply). 1993;126:1491-2

Heart, immunology

Release of immunoreactive endothelin from the heart during percutaneous transluminal coronary angioplasty (Malatino et al). 1993;126:700-2 (Brief comm.)

Heart arrest

Prediction of sudden cardiac arrest: risk stratification by anatomic substrate (Vlay et al). 1993;126:807-15

QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant (Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)

Heart atrium

Aneurysm of the atrioventricular septum between the left ventricle and right atrium without septal defect (Lin et al). 1993;126:735-7 (Brief comm.)

Right atrial angiosarcoma causing a coronary artery fistula: diagnosis by transesophageal echocardiography (Sherman et al). 1993;126:254-6 (Brief comm.)

Right atrial myxoma with atypical features of syndrome myxoma (Sommariva et al). 1993;126:256-8 (Brief comm.)

Timing of recipient atrial contraction: a major determinant of transmittal diastolic flow in orthotopic cardiac transplantation (Triposkiadis et al). 1993;126:1175-81

Heart auscultation

Effects of hydration on mitral valve prolapse (Lax et al). 1993;126:415-8

Stethoscopic and phonocardiographic devices: historical and future perspectives (Selig). 1993;126:262-8 (Editorial)

Heart block

Bradycardia-dependent manifestation of retrograde triple atrioventricular nodal pathways: possible evidence of phase-4 block in the atrioventricular node (Yamashita et al). 1993;126:719-22 (Brief comm.)

Idiopathic ventricular fibrillation and bradycardia-dependent intraventricular block (Aizawa et al). 1993;126:1473-4 (Brief comm.)

Recurrent pulmonary embolism with second-degree atrioventricular block and near syncope (Akinboboye et al). 1993;126:731-2 (Brief comm.)

Heart catheterization

Potential impact of pulmonary artery catheter placement on short-term management decisions in the medical intensive care unit (Coles et al). 1993;126:815-9

Prediction of sudden cardiac arrest: risk stratification by anatomic substrate (Vlay et al). 1993;126:807-15

Umbilical vein cardiac catheterization (Saxena et al) (Letter); (Appleton et al) (Reply). 1993;126:1494

Heart conduction system

Bradycardia-dependent manifestation of retrograde triple atrioventricular nodal pathways: possible evidence of phase-4 block in the atrioventricular node (Yamashita et al). 1993;126:719-22 (Brief comm.)

Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients (Wu et al). 1993;126:1341-8

Evidence for a reexcitability gap in man after treatment with type I antiarrhythmic drugs (Haberman et al). 1993;126:1121-6

Heart conduction system—Cont'd

Magnesium restores the altered force-frequency relationship in failing human myocardium (Schwinger et al). 1993;126:1018-21 (Brief comm.)

Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus (Chiang et al). 1993;126:1213-6 (Brief comm.)

Radiofrequency catheter ablation of a posteroseptal accessory pathway within a coronary sinus diverticulum (Tebbenhans et al). 1993;126:1216-9 (Brief comm.)

Radiofrequency catheter ablation of an accessory pathway with discontinuous retrograde conduction: potential insight into mechanism of longitudinal dissociation (Chien and Lesh). 1993;126:712-5 (Brief comm.)

Radiofrequency catheter ablation of the accessory pathway in the permanent form of junctional reciprocating tachycardia (Boyce et al). 1993;126:716-9 (Brief comm.)

Usefulness of serial follow-up electrophysiologic studies in predicting late outcome of radiofrequency ablation for accessory pathways and atrioventricular nodal reentrant tachycardia (Chen et al). 1993;126:619-25

Heart defects, congenital

Anatomically corrected malposition: report of six cases (Dalvi and Sharma). 1993;126:1229-32 (Brief comm.)

Aortico-left ventricular tunnel with aortic atresia in the newborn (Bitar et al). 1993;126:1480-2 (Brief comm.)

Atrial septal aneurysm simulating a left atrial mass diagnosed by transesophageal echocardiography (Mera et al). 1993;126:1224-5 (Brief comm.)

Congenital fibrous left ventricular diverticulum (Teske et al). 1993;126:1233-5 (Brief comm.)

Cor triatriatum in adults (Horowitz et al). 1993;126:472-3 (Brief comm.)

Detection of major aortopulmonary collateral arteries by transesophageal echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)

Developmental differences in canine cardiac surgical scars (Denfield et al). 1993;126:382-9

Diagnostic considerations in patients with suspected coronary artery anomalies (Chu and Cheitlin). 1993;126:1427-38 (Curriculum cardi.)

Long-term results after balloon pulmonary valvuloplasty in adults (Kaul et al). 1993;126:1152-5

Percutaneous coil embolization of superfluous vascular connections in patients with congenital heart disease (Rothman and Tong). 1993;126:206-13 (Prog. cardi.)

Radiofrequency ablation of posteroseptal accessory pathways in patients with abnormal coronary sinus (Chiang et al). 1993;126:1213-6 (Brief comm.)

Radiofrequency catheter ablation of atrial flutter in a patient with postoperative congenital heart disease (Case et al). 1993;126:715-6 (Brief comm.)

Right congenital pericardial defects (Miller et al). 1993;126:1235-8 (Brief comm.)

Right ventricular outflow tract obstruction: augmented diagnosis with biplane transesophageal echocardiography (Chazouilleres et al). 1993;126:477-80 (Brief comm.)

Transesophageal echocardiography in adults with congenital cardiopathies (Vargas-Barron et al). 1993;126:426-32

Heart failure, congestive

Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics (Seino et al). 1993;126:887-95

Acute and long-term effects of flosequinan in patients with chronic cardiac failure (Marchionni et al). 1993;126:147-54

Acute effects of captopril on the renal actions of furosemide in patients with chronic heart failure (McLay et al). 1993;126:879-86

Angiotensin-converting enzyme inhibition in congestive heart failure: benefit and perspective (Pfeffer). 1993;126:789-93 (Symposium)

Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)

The cardiac renin-angiotensin system in heart failure (Johnston et al). 1993;126:756-60 (Symposium)

Contribution of ACE inhibition to the management of heart failure: introduction (Cohn). 1993;126:755 (Symposium)

Doppler echocardiographic assessment of left ventricular filling in idiopathic dilated cardiomyopathy during a one-year fol-

Heart failure, congestive—Cont'd

- low-up: relation to the clinical course of disease (Werner et al). 1993;126:1408-16
- Effect of perindopril in rat cardiac volume overload (Arnal et al). 1993;126:775-81 (Symposium)
- Efficacy and acceptability of perindopril in mild to moderate chronic congestive heart failure (Lechat et al). 1993;126:798-806 (Symposium)
- Endothelial function in congestive heart failure (Drexler et al). 1993;126:761-3 (Symposium)
- Epidemiology of heart failure in the United States (Gillum). 1993;126:1042-7 (Editorial)
- Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy (Lecarpentier et al). 1993;126:770-5 (Symposium)
- Low incidence of stroke in ambulatory patients with heart failure: a prospective study (Katz et al). 1993;126:141-6
- Magnesium restores the altered force-frequency relationship in failing human myocardium (Schwinger et al). 1993;126:1018-21 (Brief comm.)
- Plasma endothelin and pulmonary pressures in patients with congestive heart failure (Cacoub et al). 1993;126:1484-8 (Brief comm.)
- Regional hemodynamic effects of perindopril in congestive heart failure (Richard et al). 1993;126:782-8 (Symposium)
- Spectrum and outcome of congestive heart failure in a hospitalized population (Andersson and Waagstein). 1993;126:632-40
- Systemic and regional hemodynamic effects of perindopril in experimental heart failure (Medvedev and Gorodetskaya). 1993;126:764-9 (Symposium)

Heart murmur

- Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Heart neoplasms

- Epicardial lipoma (Shirani and Roberts). 1993;126:1030 (Brief comm.)
- Right atrial myxoma with atypical features of syndrome myxoma (Sommariva et al). 1993;126:256-8 (Brief comm.)

Heart rate

- Alterations in heart rate variability and its circadian rhythm in hypertensive patients with left ventricular hypertrophy free of coronary artery disease (Chakko et al). 1993;126:1364-72
- Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake (Kodama et al). 1993;126:587-93
- Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus (Murakawa et al). 1993;126:108-14
- Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm (Lee et al). 1993;126:1401-7

Heart rupture

- Direct visualization of left ventricular free wall rupture by transesophageal echocardiography in acute myocardial infarction (Deshmukh et al). 1993;126:475-7 (Brief comm.)
- Emergency portable percutaneous cardiopulmonary bypass for left ventricular free wall rupture from myocardial infarction (Wanner and Lewin). 1993;126:1211-3 (Brief comm.)
- Subacute ventricular free wall rupture complicating myocardial infarction (Raitt et al). 1993;126:946-55 (Curriculum cardi.)
- Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Heart septal defects

- Selective presaturation magnetic resonance angiography: new method for detecting intracardiac shunts (Hartnell et al). 1993;126:1032-4 (Brief comm.)

Heart septal defects, atrial

- Detection of left-to-right shunt in atrial septal defect by negative contrast echocardiography: a comparison of transthoracic and transesophageal approach (Konstantinides et al). 1993;126:909-17
- Negative air-contrast test does not exclude the presence of patent foramen ovale by transesophageal echocardiography (Movsowitz et al). 1993;126:1031-2 (Brief comm.)

Heart septal defects, ventricular

- Congenital left ventricular diverticulum with ventricular septal defect, mitral and tricuspid regurgitation, and coronary disease (Yamashita et al). 1993;126:461-3 (Brief comm.)

Heart septal defects, ventricular—Cont'd

- Detection of major aortopulmonary collateral arteries by transesophageal echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)
- Evolution of echocardiographic modalities in detection of post-myocardial infarction ventricular septal defect and papillary muscle rupture: study of 62 patients (Kishon et al). 1993;126:667-75 (Prog. cardi.)
- Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transesophageal echocardiography (Groundstroem et al). 1993;126:702-5 (Brief comm.)
- Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Heart septum

- Aneurysm of the atrioventricular septum between the left ventricle and right atrium without septal defect (Lin et al). 1993;126:735-7 (Brief comm.)

Heart transplantation

- Cardiac allograft vasculopathy (Ardehali et al). 1993;126:1498-502 (Editorial)
- De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angiography (Jain et al). 1993;126:453-6 (Brief comm.)
- Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904
- Timing of recipient atrial contraction: a major determinant of transmitral diastolic flow in orthotopic cardiac transplantation (Triposkiadis et al). 1993;126:1175-81
- Very early appearance of Kaposi's sarcoma after cardiac transplantation in Sephardic Jews (Zahger et al). 1993;126:999-1000 (Brief comm.)

Heart valve prosthesis

- Intermittent regurgitation flow with Björk-Shiley mitral prosthesis in atrial fibrillation (Bodur and Friart). 1993;126:1006-7 (Brief comm.)
- Surgically treated case of complete obstruction of the left main coronary artery caused by Takayasu's arteritis (Takei et al). 1993;126:458-9 (Brief comm.)

Heart valves

- Four-valve endocarditis resulting from *Staphylococcus aureus* diagnosed by biplane transesophageal echocardiography (Bernstein et al). 1993;126:251-4 (Brief comm.)

Heart ventricle

- Aneurysm of the atrioventricular septum between the left ventricle and right atrium without septal defect (Lin et al). 1993;126:735-7 (Brief comm.)
- Characteristics of Ca²⁺-activated K⁺ channels isolated from the left ventricle of a patient with idiopathic long QT syndrome (Krause et al). 1993;126:1134-41
- The effects of chronic oral milrinone therapy on early postinfarction left ventricular remodeling (Jain et al). 1993;126:543-51
- Long-term effects of acute thrombolytic therapy on ventricular size and function (Picard et al). 1993;126:1-10
- Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy (Karkal et al). 1993;126:242-6 (Brief comm.)

Heart ventricle, abnormalities

- Congenital fibrous left ventricular diverticulum (Teske et al). 1993;126:1233-5 (Brief comm.)
- Hemodynamic and myocyte mitochondrial ultrastructural abnormalities in arrhythmogenic right ventricular dysplasia (Blankenship et al). 1993;126:989-95 (Brief comm.)

Heart ventricle, anatomy

- Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite (Wolfe et al). 1993;126:1275-86
- Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography (Yamaoka et al). 1993;126:1372-9

Hemangiosarcoma

- Right atrial angiosarcoma causing a coronary artery fistula: diagnosis by transesophageal echocardiography (Sherman et al). 1993;126:254-6 (Brief comm.)

Hematologic complications; see Blood

Hematologic tests

Myocardial reperfusion can be predicted by myoglobin/creatinine ratio of a single blood sample obtained at the time of admission (Abe et al). 1993;126:279-85

Hemodynamics

- Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics (Seino et al). 1993;126:887-95
- Acute and long-term effects of flosequinan in patients with chronic cardiac failure (Marchionni et al). 1993;126:147-54
- Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol (Twidale et al). 1993;126:122-9
- Estimation of rate of left ventricular pressure rise by Doppler echocardiography: its hemodynamic validation (Pai et al). 1993;126:240-2 (Brief comm.)
- Exercise capacity and hemodynamics in systemic lupus erythematosus: a Doppler echocardiographic exercise study (Winslow et al). 1993;126:410-4
- Hemodynamic and myocyte mitochondrial ultrastructural abnormalities in arrhythmogenic right ventricular dysplasia (Blankenship et al). 1993;126:989-95 (Brief comm.)
- Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship (Dávila-Román et al). 1993;126:155-60
- Percutaneous coil embolization of superfluous vascular connections in patients with congenital heart disease (Rothman and Tong). 1993;126:206-13 (Prog. cardiol.)
- Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904
- Regional hemodynamic effects of perindopril in congestive heart failure (Richard et al). 1993;126:782-8 (Symposium)
- Sensitivity and reproducibility of the instantaneous hyperemic flow versus pressure slope index compared to coronary flow reserve for the assessment of stenosis severity (Cleary et al). 1993;126:57-65
- Systemic and regional hemodynamic effects of perindopril in experimental heart failure (Medvedev and Gorodetskaya). 1993;126:764-9 (Symposium)

Hemorrhage

Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration (Becker et al). 1993;126:11-4

Hemorrhage, subarachnoid; see Subarachnoid hemorrhage

Heparin

- A comparison of heparin strategies after thrombolytic therapy (Becker et al). 1993;126:750-2 (Brief comm.)
- Subcutaneous heparin in postangioplasty management: comparative trial with intravenous heparin (Fail et al). 1993;126:1059-67
- Therapeutic approach to unstable angina: nitroglycerin, heparin, and combined therapy (Jaffrani et al). 1993;126:1239-42 (Editorial)
- Transesophageal echocardiography in patients with heparin-induced thrombocytopenia and thrombosis (Movsowitz et al). 1993;126:1011-3 (Brief comm.)

Hereditary diseases

Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities (Tentolouris et al). 1993;126:904-9

Hispanic Americans

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Historical articles

- The birth and progress of the first heart journal (Mason). 1993;126:503-6 (Editor's page)
- Stethoscopic and phonocardiographic devices: historical and future perspectives (Selig). 1993;126:262-8 (Editorial)

HIV

Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)

Hormones

Short- and long-term neurohormonal activation following acute myocardial infarction (Sigurdsson et al). 1993;126:1068-76

Hospitalization

Spectrum and outcome of congestive heart failure in a hospitalized population (Andersson and Waagstein). 1993;126:632-40

Hospitals, community

Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting (Kahn). 1993;126:561-4

Hydration; see Drinking

Hypertension

- Alterations in heart rate variability and its circadian rhythm in hypertensive patients with left ventricular hypertrophy free of coronary artery disease (Chakko et al). 1993;126:1364-72
- Effect of perindopril in rat cardiac volume overload (Arnal et al). 1993;126:775-81 (Symposium)
- The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32

Hypertension, diagnosis

The cardiologist's approach to evaluation and management of the patient with essential hypertension (Phillips). 1993;126:648-66 (Curriculum cardiol.)

Hypertension, drug therapy

- The cardiologist's approach to evaluation and management of the patient with essential hypertension (Phillips). 1993;126:648-66 (Curriculum cardiol.)
- Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension (Houston and Hays). 1993;126:918-23

Hypertension, metabolism

Metabolic characteristics of hypertension: importance of positive family history (Neutel et al). 1993;126:924-9

Hypertension, pulmonary

- Cor triatriatum in adults (Horowitz et al). 1993;126:472-3 (Brief comm.)
- Diastolic left ventricular dysfunction leading to severe reversible pulmonary hypertension (Kessler et al). 1993;126:234-5 (Brief comm.)
- Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904

Hypertrophic cardiomyopathy; see Cardiomyopathy, hypertrophic

Hypertrophy, left ventricular

- Alterations in heart rate variability and its circadian rhythm in hypertensive patients with left ventricular hypertrophy free of coronary artery disease (Chakko et al). 1993;126:1364-72
- Coronary artery size in mitral regurgitation and its regression after mitral valve surgery (Vassalli et al). 1993;126:1091-8
- The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32

Hypotension

Reversal of refractory hypotension with intracoronary epinephrine during coronary angioplasty (Kahn and Hartzler). 1993;126:463-6 (Brief comm.)

Hypotension, orthostatic

On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt (Patel et al). 1993;126:184-8

I

Identical twins; see Twins

Idiopathic cardiomyopathy; see Cardiomyopathy, hypertrophic

Idiopathic dilated cardiomyopathy; see Cardiomyopathy, congestive

Idiopathic hypereosinophilic syndrome; see Eosinophilia

Idiopathic long QT syndrome; see Long QT syndrome

Idiopathic ventricular fibrillation; see Ventricular fibrillation

Idiopathic ventricular tachycardia; see Tachycardia, ventricular

IgG

Chagas' disease in North America (Reyes). 1993;126:1496 (Letter)

Iloprost

Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs (Nichols et al). 1993;126:285-92

Image processing

Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context (Krishnan et al). 1993;126:578-86

Immunohistochemistry

Immunohistochemical localization of laminin in the hearts of patients with chronic chagasic cardiomyopathy: relationship to thickening of basement membranes (Sanchez et al). 1993;126:1392-1401

Immunologic diseases

Familial calcification of aorta and calcific aortic valve disease associated with immunologic abnormalities (Tentolouris et al). 1993;126:904-9

Immunoreactive endothelin; see Endothelins**In-office treatment; see Office visits****Infant, newborn**

Aortic-left ventricular tunnel with aortic atresia in the newborn (Bitar et al). 1993;126:1480-2 (Brief comm.)

Balloon dilation of aortic coarctation (Redington and Rigby) (Letter); (Johnson et al) (Reply). 1993;126:1492-3

Doppler-detected aortic coarctation with PDA (Cullen and Redington) (Letter); (Ramaciotti) (Reply). 1993;126:1493-4

QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant (Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)

Infarction

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Inferior ST depression; see Electrocardiography**Informed consent**

Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)

Infusion, balloon angioplasty; see Angioplasty, balloon**Infusions, intravenous**

Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction (Arora et al). 1993;126:225-8 (Brief comm.)

Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging (Villegas et al). 1993;126:103-7

Effectiveness of intravenous rTPA in the treatment of massive pulmonary embolism and right heart thromboembolism (Cucina et al). 1993;126:468-72 (Brief comm.)

Subcutaneous heparin in postangioplasty management: comparative trial with intravenous heparin (Fail et al). 1993;126:1059-67

Treatment of pacemaker-associated right atrial thrombus with 2-hour rTPA infusion (Cooper et al). 1993;126:228-9 (Brief comm.)

Injectations, subcutaneous

Subcutaneous heparin in postangioplasty management: comparative trial with intravenous heparin (Fail et al). 1993;126:1059-67

Innominate artery; see Brachiocephalic trunk**Inoue balloon valvotomy; see Balloon dilatation****Instantaneous hyperemia flow; see Hemodynamics****Intensive care units**

Potential impact of pulmonary artery catheter placement on short-term management decisions in the medical intensive care unit (Coles et al). 1993;126:815-9

Intercellular junctions

Electron microscopic demonstration of intercellular junctions between subendocardial smooth muscle and myocardium in the sheep heart (Terasaki et al). 1993;126:399-405

Interleukin-6

Elevated plasma interleukin-6 levels in patients with acute myocardial infarction (Miyao et al). 1993;126:1299-304

Internal mammary artery implantation

Coronary subclavian steal syndrome (Samoil and Schwartz). 1993;126:1463-6 (Brief comm.)

Internal mammary-coronary artery anastomosis

Nonsurgical (embolization) treatment of the coronary-internal mammary flow diversion phenomenon (Habbab and Amro). 1993;126:456-8 (Brief comm.)

Interposed abdominal compression; see Cardiopulmonary resuscitation**Interventricular motion; see Ventricular function****Intimal thickening; see Tunica intima****Intraaortic debris; see Aorta****Intracardiac shunting; see Shunting****Intracoronary stents; see Stents****Intracoronary thrombolysis; see Thrombolytic therapy****Intracoronary ultrasound; see Ultrasonography****Intraluminal diagnosis; see Diagnostic imaging****Intraoperative complications**

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Intraoperative monitoring

Abnormal postoperative interventricular motion: new intraoperative transesophageal echocardiographic evidence supports a novel hypothesis (Wranne et al). 1993;126:161-7

Intravascular stents; see Stents**Intravascular ultrasound; see Ultrasonography****Intravenous drip; see Infusions, intravenous****Intravenous thrombolysis; see Thrombolytic therapy****Intraventricular block; see Heart block****Invasive electrophysiology; see Electrophysiology****Iodine**

Heterogeneity of the human myocardial sympathetic innervation: in vivo demonstration by iodine 123-labeled meta-iodobenzylguanidine scintigraphy (Gill et al). 1993;126:390-8

Ischemia, myocardial; see Myocardial ischemia**Isoenzymes**

Noninvasive detection of reperfusion after thrombolysis based on serum creatine kinase MB changes and clinical variables (Ohman et al). 1993;126:819-26

J**Jets**

Cine magnetic resonance imaging and color Doppler flow mapping displays of flow velocity, spatial acceleration, and jet formation: a comparative in vitro study (Simpson et al). 1993;126:1165-74

Jews

Very early appearance of Kaposi's sarcoma after cardiac transplantation in Sephardic Jews (Zahger et al). 1993;126:999-1000 (Brief comm.)

Jordon's anomaly; see Lipid metabolism, inborn errors**Junctional reciprocating tachycardia; see Tachycardia****K****K⁺ channels; see Potassium channels****Kaposi's sarcoma; see Sarcoma, Kaposi's****Kidney**

Acute effects of captopril on the renal actions of furosemide in patients with chronic heart failure (McLay et al). 1993;126:879-86

Kidney calculi

Vasovagal syncope elicited by extracorporeal shock wave lithotripsy (Kataoka and Tanigawa). 1993;126:258-9 (Brief comm.)

L**Laboratories**

Interventional electrophysiology—state-of-the-art 1993 (Lesh). 1993;126:686-98 (Prog. cardiol.)

Laminin

Immunohistochemical localization of laminin in the hearts of patients with chronic chagasic cardiomyopathy: relationship to thickening of basement membranes (Sanchez et al). 1993;126:1392-1401

Laser coagulation

Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser (Zheng et al). 1993;126:1474-7 (Brief comm.)

Laser surgery

Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser (Zheng et al). 1993;126:1474-7 (Brief comm.)

Feasibility and safety of pulsed dye laser irradiation in the pulmonary arteries (Steg et al). 1993;126:1477-80 (Brief comm.)

Lasers

Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser (Zheng et al). 1993;126:1474-7 (Brief comm.)

Latinas; see Hispanic Americans
Left atrial dissection; see Dissection
Left bundle branch block; see Bundle-branch block
Left ventricle; see Heart ventricle
Left ventricular aneurysm; see Aneurysm
Left ventricular diverticulum; see Diverticulum
Left ventricular free wall rupture; see Heart rupture
Left ventricular function; see Ventricular function, left
Left ventricular hypertrophy; see Hypertrophy, left ventricular
Left ventricular mass; see Heart ventricle, anatomy
Left ventricular perfusion; see Perfusion, regional
Left ventricular pressure; see Blood pressure
Left ventricular remodeling; see Heart ventricle

Letters

Arterial thrombosis in thrombocytopenia (Michiels et al). 1993;126:1495-6
 Balloon dilation of aortic coarctation (Redington and Rigby) (Letter); (Johnson et al) (Reply). 1993;126:1492-3
 Chagas' disease in North America (Reyes). 1993;126:1496
 CNS-mediated coronary spasm (Friedman) (Letter); (MacAlpin) (Reply). 1993;126:1490-1
 Diltiazem myopathy (Ahmad). 1993;126:1494-5
 Doppler-detected aortic coarctation with PDA (Cullen and Redington) (Letter); (Ramaciotti) (Reply). 1993;126:1493-4
 Endothelial dysfunction after reperfusion (Hansen) (Letter); (Lefer et al) (Reply). 1993;126:1489
 Low-nicotine cigarettes on CAD (Galante et al) (Letter); (Moyra et al) (Reply). 1993;126:1491
 Systemic embolization during TTE (Kotler) (Letter); (Pitrolo) (Reply). 1993;126:1492
 Transverse sinus by TEE (Posma et al) (Letter); (Stoddard) (Reply). 1993;126:1491-2
 Umbilical vein cardiac catheterization (Saxena et al) (Letter); (Appleton et al) (Reply). 1993;126:1494
 U.S. trends in rheumatic fever and heart disease (Gillum). 1993;126:1496-7

Leukocytes, polymorphonuclear; see Neutrophils

Lipid metabolism, inborn errors

Specific myocardial disease caused by multisystemic triglyceride storage in Jordans' anomaly (Takahira et al). 1993;126:995-7 (Brief comm.)

Lipoma

Epicardial lipoma (Shirani and Roberts). 1993;126:1030 (Brief comm.)

Lithotripsy

Vasovagal syncope elicited by extracorporeal shock wave lithotripsy (Kataoka and Tanigawa). 1993;126:258-9 (Brief comm.)

Long QT syndrome

Characteristics of Ca^{2+} -activated K^{+} channels isolated from the left ventricle of a patient with idiopathic long QT syndrome (Krause et al). 1993;126:1134-41

Longitudinal dissociation

Radiofrequency catheter ablation of an accessory pathway with discontinuous retrograde conduction: potential insight into mechanism of longitudinal dissociation (Chien and Lesh). 1993;126:712-5 (Brief comm.)

Lupus erythematosus, systemic

Exercise capacity and hemodynamics in systemic lupus erythematosus: a Doppler echocardiographic exercise study (Winslow et al). 1993;126:410-4

M

Magnesium

Magnesium restores the altered force-frequency relationship in failing human myocardium (Schwinger et al). 1993;126:1018-21 (Brief comm.)

Magnetic resonance imaging

Cine magnetic resonance imaging and color Doppler flow mapping displays of flow velocity, spatial acceleration, and jet formation: a comparative in vitro study (Simpson et al). 1993;126:1165-74

Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography (Yamaoka et al). 1993;126:1372-9

Magnetic resonance imaging compared with angiography in the evaluation of intermediate-term result of coarctation balloon angioplasty (Fawzy et al). 1993;126:1380-4

Magnetic resonance imaging—Cont'd

Magnetic resonance measurement of velocity and flow: technique, validation, and cardiovascular applications (Rebergen et al). 1993;126:1439-56 (Prog. cardiol.)

Relationship between distribution of hypertrophy and electrocardiographic changes in hypertrophic cardiomyopathy (Usui et al). 1993;126:177-83

Selective presaturation magnetic resonance angiography: new method for detecting intracardiac shunts (Hartnell et al). 1993;126:1032-4 (Brief comm.)

Magnetic resonance velocity mapping; see Nuclear magnetic resonance

Marfan syndrome

Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy (Karkal et al). 1993;126:242-6 (Brief comm.)

MB; see Isoenzymes

Mediastinal radiation; see Radiation

Medical diagnosis; see Diagnosis

Mental stress; see Stress, psychological

Meta-iodobenzylguanidine

Heterogeneity of the human myocardial sympathetic innervation: in vivo demonstration by iodine 123-labeled meta-iodobenzylguanidine scintigraphy (Gill et al). 1993;126:390-8

Microscopy, electron

Electron microscopic demonstration of intercellular junctions between subendocardial smooth muscle and myocardium in the sheep heart (Terasaki et al). 1993;126:399-405

Midventricular obstruction; see Ventricular outflow obstruction

Milrinone

The effects of chronic oral milrinone therapy on early postinfarction left ventricular remodeling (Jain et al). 1993;126:543-51

Mitochondria, muscle

Hemodynamic and myocyte mitochondrial ultrastructural abnormalities in arrhythmogenic right ventricular dysplasia (Blankenship et al). 1993;126:989-95 (Brief comm.)

Mitral regurgitation; see Mitral valve insufficiency

Mitral valve

Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise (Ikeda et al). 1993;126:130-5

Mitral valve, pathology

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Mitral valve insufficiency

Congenital left ventricular diverticulum with ventricular septal defect, mitral and tricuspid regurgitation, and coronary disease (Yamashita et al). 1993;126:461-3 (Brief comm.)

Coronary artery size in mitral regurgitation and its regression after mitral valve surgery (Vassalli et al). 1993;126:1091-8

Estimation of rate of left ventricular pressure rise by Doppler echocardiography: its hemodynamic validation (Pai et al). 1993;126:240-2 (Brief comm.)

Intermittent regurgitation flow with Björk-Shiley mitral prosthesis in atrial fibrillation (Bodur and Friart). 1993;126:1006-7 (Brief comm.)

Limitations of color flow Doppler imaging in the quantification of valvular regurgitation: velocity of regurgitant jet, rather than volume, determines size of color Doppler image (Losordo et al). 1993;126:168-76

Mitral stenosis and mitral regurgitation 1 year after Inoue mitral balloon valvotomy in a population of patients with pliable mitral valve stenosis (Ribeiro et al). 1993;126:136-40

Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship (Dávila-Román et al). 1993;126:155-60

Pharmacologic abolition of severe mitral regurgitation associated with dynamic left ventricular outflow tract obstruction after mitral valve repair: confirmation by transesophageal echocardiography (Webster et al). 1993;126:480-3 (Brief comm.)

A unique chromosomal abnormality in idiopathic hypereosinophilic syndrome presenting with cardiac involvement (Wolz et al). 1993;126:246-8 (Brief comm.)

Mitral valve prolapse

Effects of hydration on mitral valve prolapse (Lax et al). 1993;126:415-8

Masking of echocardiographic mitral valve prolapse during evolution of dilated cardiomyopathy (Karkal et al). 1993;126:242-6 (Brief comm.)

Mitral valve stenosis

Mitral regurgitation and mitral regurgitation 1 year after Inoue mitral balloon valvotomy in a population of patients with pliable mitral valve stenosis (Ribeiro et al). 1993;126:136-40

Percutaneous balloon mitral valvuloplasty: analysis of echocardiographic and other variables related to outcome (Goswami et al). 1993;126:1147-51

Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm (Lee et al). 1993;126:1401-7

Transseptal balloon mitral valvuloplasty in mitral stenosis with atrial septal aneurysm (Yeh et al). 1993;126:474-5 (Brief comm.)

Mitral valvuloplasty; see Balloon dilatation**Models, theoretical**

Local infusion balloon angioplasty to obviate restenosis compared with conventional balloon angioplasty in an experimental model of atherosclerosis (Stadius et al). 1993;126:47-56

Monitoring, physiologic

The cardiologist's approach to evaluation and management of the patient with essential hypertension (Phillips). 1993;126:648-66 (Curriculum cardiol.)

Morbidity

U.S. trends in rheumatic fever and heart disease (Gillum). 1993;126:1496-7 (Letter)

Mortality

Epidemiology of heart failure in the United States (Gillum). 1993;126:1042-7 (Editorial)

Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

U.S. trends in rheumatic fever and heart disease (Gillum). 1993;126:1496-7 (Letter)

Multiple myeloma

Multiple myeloma involving the pericardium associated with cardiac tamponade and constrictive pericarditis (Santana et al). 1993;126:737-40 (Brief comm.)

Multisystemic triglyceride storage; see Triglycerides**Muscle, smooth, vascular**

Do arterial endothelin 1 levels affect local arterial stiffness? (Heintz et al). 1993;126:987-9 (Brief comm.)

Electron microscopic demonstration of intercellular junctions between subendocardial smooth muscle and myocardium in the sheep heart (Terasaki et al). 1993;126:399-405

Muscles

Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy (Lecarpentier et al). 1993;126:770-5 (Symposium)

Muscular arteries; see Arteries**Muscular diseases**

Diltiazem myopathy (Ahmad). 1993;126:1494-5 (Letter)

Myocardial bridge

De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angiography (Jain et al). 1993;126:453-6 (Brief comm.)

Myocardial contraction

Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship (Dávila-Román et al). 1993;126:155-60

Myocardial diseases

Specific myocardial disease caused by multisystemic triglyceride storage in Jordans' anomaly (Takahira et al). 1993;126:995-7 (Brief comm.)

Myocardial failure; see Heart failure, congestive**Myocardial fibrosis; see Fibrosis****Myocardial imaging radionuclides; see Radionuclide imaging****Myocardial infarction, complications**

Cholesterol embolization syndrome after intravenous tissue plasminogen activator for acute myocardial infarction (Arora et al). 1993;126:225-8 (Brief comm.)

Myocardial infarction, complications—Cont'd

Direct visualization of left ventricular free wall rupture by transesophageal echocardiography in acute myocardial infarction (Deshmukh et al). 1993;126:475-7 (Brief comm.)

Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates (Newman et al). 1993;126:1106-12

The effects of chronic oral milrinone therapy on early postinfarction left ventricular remodeling (Jain et al). 1993;126:543-51

Emergency portable percutaneous cardiopulmonary bypass for left ventricular free wall rupture from myocardial infarction (Wanner and Lewin). 1993;126:1211-3 (Brief comm.)

Evolution of echocardiographic modalities in detection of post-myocardial infarction ventricular septal defect and papillary muscle rupture: study of 62 patients (Kishon et al). 1993;126:667-75 (Prog. cardiol.)

Postinfarction left ventricular aneurysm and ventricular septal defect assessed by precordial and transesophageal echocardiography (Groundstroem et al). 1993;126:702-5 (Brief comm.)

Subacute ventricular free wall rupture complicating myocardial infarction (Raitt et al). 1993;126:946-55 (Curriculum cardiol.)

Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Myocardial infarction, diagnosis

^{99m}Tc-antimyosin antibody imaging for the detection of acute myocardial infarction in human beings (Senior et al). 1993;126:536-42

Myocardial infarction, drug therapy

A comparison of heparin strategies after thrombolytic therapy (Becker et al). 1993;126:750-2 (Brief comm.)

High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model (Watanabe et al). 1993;126:840-6

Short- and long-term neurohormonal activation following acute myocardial infarction (Sigurdsson et al). 1993;126:1068-76

Successful very early in-office treatment of stress test-induced myocardial infarction with anistreplase (Wrisley et al). 1993;126:699 (Brief comm.)

Myocardial infarction, epidemiology

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Myocardial infarction, etiology

Peripartum myocardial infarction (Taylor et al). 1993;126:1462-3 (Brief comm.)

Role of coronary vasospasm in the pathogenesis of myocardial infarction: study in patients with no significant coronary stenosis (Fukai et al). 1993;126:1305-11

Myocardial infarction, immunology

Elevated plasma interleukin-6 levels in patients with acute myocardial infarction (Miyao et al). 1993;126:1299-304

Myocardial infarction, pathophysiology

Early exercise testing after acute myocardial infarction in the elderly: clinical evaluation and prognostic significance (Ciaroni et al). 1993;126:304-11

Prognostic significance of electrocardiographic persistent ST depression in patients with their first myocardial infarction in the placebo arm of the Beta Blocker Heart Attack Trial (Gheorghiade et al). 1993;126:271-8

The relationship of inferior ST depression, lateral ST elevation, and left precordial ST elevation to myocardium at risk in acute anterior myocardial infarction (Fletcher et al). 1993;126:526-35

Myocardial infarction, prevention and control

The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size (Charney and Cohen). 1993;126:937-45

Myocardial infarction, surgery

Temporary transvenous pacemaker placement: What criteria constitute an adequate pacing site? (Goldberger et al). 1993;126:488-93 (Brief comm.)

Myocardial infarction, therapy

A comparison of heparin strategies after thrombolytic therapy (Becker et al). 1993;126:750-2 (Brief comm.)

Endothelial dysfunction in acute myocardial infarction after reperfusion (Bridges et al). 1993;126:451-2 (Brief comm.)

Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)

Myocardial infarction, therapy—Cont'd

- Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration (Becker et al). 1993;126:11-4
- Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction (Hirai et al). 1993;126:827-31
- Long-term effects of acute thrombolytic therapy on ventricular size and function (Picard et al). 1993;126:1-10
- Serial changes in atrial and brain natriuretic peptides in patients with acute myocardial infarction treated with early coronary angioplasty (Horio et al). 1993;126:293-9
- Sex-related differences in patients undergoing direct angioplasty for acute myocardial infarction (Vacek et al). 1993;126:521-5
- Sudden increase of the ST segment elevation at time of reperfusion predicts extensive infarcts in patients with intravenous thrombolysis (Dissmann et al). 1993;126:832-9

Myocardial ischemia

- Acute impact of percutaneous transluminal coronary angioplasty on the ischemic burden in stable and unstable angina (Foley et al). 1993;126:705-7 (Brief comm.)
- Acute occlusion of the left anterior descending coronary artery by shotgun pellets (Nerantzis et al). 1993;126:452-3 (Brief comm.)
- Adenosine deaminase inhibition is not cardioprotective in the rat (Li and Kloner). 1993;126:1293-8
- Are reciprocal changes caused by ischemia at a distance or merely a benign electric phenomenon? A PTCA study (Tabalab and Haft). 1993;126:95-103
- Attenuation of baroreflex changes in cardiac sympathetic efferent activities during acute myocardial ischemia (Hageman and Gantenberg). 1993;126:347-51
- Comparison of tetroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62
- Exercise-induced QRS prolongation in patients with coronary artery disease: a marker of myocardial ischemia (Michaelides et al). 1993;126:1320-5
- Heterogeneity of reperfusion after reversible regional myocardial ischemia in a canine model (Louie et al). 1993;126:514-20
- Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction (Hirai et al). 1993;126:827-31
- Ischemia in collateral-dependent myocardium: effects of nifedipine and diltiazem in man (Pupita et al). 1993;126:86-94
- Long-term dietary fish oil supplementation protects against ischemia-reperfusion-induced myocardial dysfunction in isolated rat hearts (Yang et al). 1993;126:1287-92
- Multiple coronary arterial loops as a cause of myocardial ischemia (Bashour et al). 1993;126:219-21 (Brief comm.)
- Myocardial ischemia is not a prerequisite for the stimulation of coronary collateral development (Cohen). 1993;126:847-55
- Release of immunoreactive endothelin from the heart during percutaneous transluminal coronary angioplasty (Malatino et al). 1993;126:700-2 (Brief comm.)
- The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size (Charney and Cohen). 1993;126:937-45

Myocardial oxygen uptake; see Oxygen

Myocardial perfusion; see Perfusion, regional

Myocardial perfusion imaging; see Diagnostic imaging

Myocardial reperfusion

- Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite (Wolfe et al). 1993;126:1275-86
- Myocardial reperfusion can be predicted by myoglobin/creatine kinase ratio of a single blood sample obtained at the time of admission (Abe et al). 1993;126:279-85

Myocardial reperfusion injury

- Adenosine deaminase inhibition is not cardioprotective in the rat (Li and Kloner). 1993;126:1293-8
- Endothelial dysfunction in acute myocardial infarction after reperfusion (Bridges et al). 1993;126:451-2 (Brief comm.)
- Long-term dietary fish oil supplementation protects against ischemia-reperfusion-induced myocardial dysfunction in isolated rat hearts (Yang et al). 1993;126:1287-92

Myocardial revascularization

- Angiographic suitability for catheter revascularization of total coronary occlusions in patients from a community hospital setting (Kahn). 1993;126:561-4

Myocarditis

- FK506 therapy of experimental autoimmune myocarditis after onset of the disease (Kodama et al). 1993;126:1385-92

Myocardium

- Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser (Zheng et al). 1993;126:1474-7 (Brief comm.)
- Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10
- Electron microscopic demonstration of intercellular junctions between subendocardial smooth muscle and myocardium in the sheep heart (Terasaki et al). 1993;126:399-405
- Heterogeneity of the human myocardial sympathetic innervation: in vivo demonstration by iodine 123-labeled meta-iodobenzylguanidine scintigraphy (Gill et al). 1993;126:390-8

Myocyte mitochondria; see Mitochondria, muscle

Myoglobin

- Myocardial reperfusion can be predicted by myoglobin/creatine kinase ratio of a single blood sample obtained at the time of admission (Abe et al). 1993;126:279-85

Myopathy; see Muscular diseases

Myosin

- ^{99m}Tc-antimyosin antibody imaging for the detection of acute myocardial infarction in human beings (Senior et al). 1993;126:536-42

Myxoma

- Right atrial myxoma with atypical features of syndrome myxoma (Sommariva et al). 1993;126:256-8 (Brief comm.)

N

Negative contrast echocardiography; see Echocardiography

Neurohormones; see Hormones

Neurons, efferent

- Attenuation of baroreflex changes in cardiac sympathetic efferent activities during acute myocardial ischemia (Hageman and Gantenberg). 1993;126:347-51
- Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates (Newman et al). 1993;126:1106-12

Neutrophils

- Endothelial dysfunction after reperfusion (Hansen) (Letter); (Lefer et al) (Reply). 1993;126:1489

New Zealand

- Comparison of intimal thickening of Chinese and New Zealand coronary arteries (Sims et al). 1993;126:863-71

Newborn infant; see Infant, newborn

Nicotine

- Low-nicotine cigarettes on CAD (Galante et al) (Letter); (Moreyra et al) (Reply). 1993;126:1491

Nifedipine

- Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götzsche et al). 1993;126:1417-26
- Changing vasomotor responses of coronary arteries to nifedipine (Raby et al). 1993;126:333-8
- Ischemia in collateral-dependent myocardium: effects of nifedipine and diltiazem in man (Pupita et al). 1993;126:86-94
- Transdermal clonidine as an adjunct to nifedipine-GITS therapy in patients with mild-to-moderate hypertension (Houston and Hays). 1993;126:918-23

Nitroglycerin

- Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götzsche et al). 1993;126:1417-26
- Therapeutic approach to unstable angina: nitroglycerin, heparin, and combined therapy (Jaffrani et al). 1993;126:1239-42 (Editorial)

Non-Q-wave infarction; see Infarction

Nonidentical twins; see Twins

Nonsustained ventricular tachycardia; see Tachycardia, ventricular

Nonthoracotomy lead system; see Defibrillators, implantable

Nuclear magnetic resonance

Valve area and cardiac output in aortic stenosis: quantification by magnetic resonance velocity mapping (Søndergaard et al). 1993;126:1156-64

O

Octogenarian; see Aged

Office visits

Successful very early in-office treatment of stress test-induced myocardial infarction with anistreplase (Wrisley et al). 1993;126:699 (Brief comm.)

Oligopeptides

Endothelial dysfunction after reperfusion (Hansen) (Letter); (Lefer et al) (Reply). 1993;126:1489

Online systems

Can the same edge-detection algorithm be applied to on-line and off-line analysis systems? Validation of a new cinefilm-based geometric coronary measurement software (Haase et al). 1993;126:312-21

Orthostatic hypotension; see Hypotension, orthostatic
Orthotopic cardiac transplantation; see Heart transplantation

Ovarian vein thrombosis; see Thrombosis

Overdose

Hematologic complications of diltiazem overdose (Fang and Tsai). 1993;126:1017-8 (Brief comm.)

Oxygen

Effect of antianginal agents on the relationship between rate-pressure product and myocardial oxygen uptake (Kodama et al). 1993;126:587-93

P

Pacemaker, artificial

Response of the QT-sensing rate-adaptive ventricular pacemaker to mental stress (Frais et al). 1993;126:1219-22 (Brief comm.)

Superior vena cava syndrome after repeated insertion of transvenous pacemaker (Yoon et al). 1993;126:1014-5 (Brief comm.)

Temporary transvenous pacemaker placement: What criteria constitute an adequate pacing site? (Goldberger et al). 1993;126:488-93 (Brief comm.)

Treatment of pacemaker-associated right atrial thrombus with 2-hour rTPA infusion (Cooper et al). 1993;126:228-9 (Brief comm.)

Palmaz-Schatz stents; see Stents

Papillary fibroelastoma; see Papilloma

Papillary muscle rupture; see Rupture

Papilloma

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transthoracic and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Parasympathetic nervous system

Parasympathetic activity is a major modulator of the circadian variability of heart rate in healthy subjects and in patients with coronary artery disease or diabetes mellitus (Murakawa et al). 1993;126:108-14

Patent foramen ovale; see Heart septal defects, atrial
PDA; see Aortic coarctation

Peak systolic pressure/end-systolic area relationship; see Hemodynamics

Percutaneous balloon mitral valvuloplasty; see Balloon dilatation

Percutaneous cardiopulmonary bypass; see Cardiopulmonary bypass

Percutaneous coil embolization; see Embolization, therapeutic

Percutaneous transluminal angioplasty; see Angioplasty, balloon

Percutaneous transluminal mitral valvuloplasty; see Balloon dilatation

Perfusion, regional

Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite (Wolfe et al). 1993;126:1275-86

Perfusion, regional—Cont'd

Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62

Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context (Krishnan et al). 1993;126:578-86

Simultaneous assessment of left ventricular perfusion and function with technetium-99m sestamibi after coronary artery bypass grafting (Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)

Pericardial effusion

Dermatomyositis with pericardial tamponade and polymyositis with pericardial effusion (Yale et al). 1993;126:997-9 (Brief comm.)

Usefulness of transesophageal Doppler echocardiography in the surgical drainage of a loculated purulent pericardial effusion (Golub et al). 1993;126:724-7 (Brief comm.)

Pericardial tamponade; see Cardiac tamponade

Pericarditis

Purulent pericarditis caused by group B streptococcus with pericardial tamponade (Karim et al). 1993;126:727-31 (Brief comm.)

Pericarditis, constrictive

Multiple myeloma involving the pericardium associated with cardiac tamponade and constrictive pericarditis (Santana et al). 1993;126:737-40 (Brief comm.)

Pericarditis, tuberculous

Tuberculous pericarditis presumably diagnosed by polymerase chain reaction analysis (Seino et al). 1993;126:249-51 (Brief comm.)

Pericardium

Massive chylopericardium due to congenital fistulas (Samaniego et al). 1993;126:1005-6 (Brief comm.)

Multiple myeloma involving the pericardium associated with cardiac tamponade and constrictive pericarditis (Santana et al). 1993;126:737-40 (Brief comm.)

Right congenital pericardial defects (Miller et al). 1993;126:1235-8 (Brief comm.)

Perindopril

Angiotensin-converting enzyme inhibitors in heart failure: blood pressure changes after the first dose (Reid et al). 1993;126:794-7 (Symposium)

Contribution of ACE inhibition to the management of heart failure: introduction (Cohn). 1993;126:755 (Symposium)

Effect of perindopril in rat cardiac volume overload (Arnall et al). 1993;126:775-81 (Symposium)

Efficacy and acceptability of perindopril in mild to moderate chronic congestive heart failure (Lechat et al). 1993;126:798-806 (Symposium)

Intrinsic alterations of diaphragm muscle in experimental cardiomyopathy (Lecarpentier et al). 1993;126:770-5 (Symposium)

Regional hemodynamic effects of perindopril in congestive heart failure (Richard et al). 1993;126:782-8 (Symposium)

Systemic and regional hemodynamic effects of perindopril in experimental heart failure (Medvedev and Gorodetskaya). 1993;126:764-9 (Symposium)

Perioperative cardiac events; see Intraoperative complications

Peripartum period; see Pregnancy

Phase-4 block; see Heart block

Phonoaudio devices; see Equipment and supplies

Pittsburgh

Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904

Placebos

Prognostic significance of electrocardiographic persistent ST depression in patients with their first myocardial infarction in the placebo arm of the Beta Blocker Heart Attack Trial (Gheorghiadu et al). 1993;126:271-8

Plasma

Effects of percutaneous transluminal mitral valvuloplasty on plasma catecholamine levels during exercise (Ikeda et al). 1993;126:130-5

Elevated plasma interleukin-6 levels in patients with acute myocardial infarction (Miyao et al). 1993;126:1299-304

Plasma endothelin and pulmonary pressures in patients with congestive heart failure (Cacoub et al). 1993;126:1484-8 (Brief comm.)

Polycythemia vera

Arterial thrombosis in thrombocythemia (Michiels et al). 1993;126:1495-6 (Letter)

Polymerase chain reaction

Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10

Tuberculous pericarditis presumably diagnosed by polymerase chain reaction analysis (Seino et al). 1993;126:249-51 (Brief comm.)

Polymyositis

Dermatomyositis with pericardial tamponade and polymyositis with pericardial effusion (Yale et al). 1993;126:997-9 (Brief comm.)

Porcine coronary arteries; see Coronary vessels

Portable percutaneous cardiopulmonary bypass; see Cardiopulmonary bypass

Porteroseptal accessory pathways; see Heart conduction system

Post-ductal coarctation; see Aortic coarctation

Postangioplasty management; see Angioplasty, transluminal, percutaneous coronary

Postoperative complications

Abnormal postoperative interventricular motion: new intraoperative transesophageal echocardiographic evidence supports a novel hypothesis (Wranne et al). 1993;126:161-7

Pharmacologic abolition of severe mitral regurgitation associated with dynamic left ventricular outflow tract obstruction after mitral valve repair: confirmation by transesophageal echocardiography (Webster et al). 1993;126:480-3 (Brief comm.)

Prolonged bradyarrhythmias after isolated coronary artery bypass graft surgery (Emlein et al). 1993;126:1084-90

Radiofrequency catheter ablation of atrial flutter in a patient with postoperative congenital heart disease (Case et al). 1993;126:715-6 (Brief comm.)

Potassium channels

Characteristics of Ca^{2+} -activated K^{+} channels isolated from the left ventricle of a patient with idiopathic long QT syndrome (Krause et al). 1993;126:1134-41

Precordial echocardiography; see Echocardiography

Precordial ST elevation; see Electrocardiography

Pregnancy

Ovarian vein thrombosis (Simons et al). 1993;126:641-7 (Curriculum cardiol.)

Peripartum myocardial infarction (Taylor et al). 1993;126:1462-3 (Brief comm.)

Preoperative hemodynamics; see Hemodynamics

Pressure slope index; see Hemodynamics

Progress in cardiology

Progress in cardiology. 1993;126:206-18, 444-50, 667-98, 956-84, 1199-210, 1439-61

Prostacyclins; see Epoprostenol

Prosthesis failure

Intermittent regurgitation flow with Björk-Shiley mitral prosthesis in atrial fibrillation (Bodur and Friart). 1993;126:1006-7 (Brief comm.)

PTCA; see Angioplasty, transluminal, percutaneous coronary

Pulmonary artery

Detection of major aortopulmonary collateral arteries by transesophageal echocardiography in pulmonary atresia with ventricular septal defect (Ma et al). 1993;126:1227-9 (Brief comm.)

Feasibility and safety of pulsed dye laser irradiation in the pulmonary arteries (Steg et al). 1993;126:1477-80 (Brief comm.)

Potential impact of pulmonary artery catheter placement on short-term management decisions in the medical intensive care unit (Coles et al). 1993;126:815-9

Unilateral pulmonary edema related to pulmonary artery compression resulting from acute dissecting aortic aneurysm (Takahashi et al). 1993;126:1225-7 (Brief comm.)

Pulmonary atresia, venous; see Pulmonary veins

Pulmonary edema

Acute pulmonary edema due to pulmonary venous obstruction by left atrial dissection (Grech et al). 1993;126:734-5 (Brief comm.)

Unilateral pulmonary edema related to pulmonary artery compression resulting from acute dissecting aortic aneurysm (Takahashi et al). 1993;126:1225-7 (Brief comm.)

Pulmonary embolism

Effectiveness of intravenous rTPA in the treatment of massive pulmonary embolism and right heart thromboembolism (Cuccia et al). 1993;126:468-72 (Brief comm.)

Embolitic chondrosarcoma: an unusual cause of pulmonary embolism (Leung et al). 1993;126:732-4 (Brief comm.)

Feasibility and safety of pulsed dye laser irradiation in the pulmonary arteries (Steg et al). 1993;126:1477-80 (Brief comm.)

Recurrent pulmonary embolism with second-degree atrioventricular block and near syncope (Akinboboye et al). 1993;126:731-2 (Brief comm.)

Pulmonary fibrosis

Bepridil-induced pulmonary fibrosis (Vasilomanolakis and Goldberg). 1993;126:1016-7 (Brief comm.)

Pulmonary hemodynamics; see Hemodynamics

Pulmonary hypertension; see Hypertension, pulmonary

Pulmonary pressure; see Blood pressure

Pulmonary valve stenosis

Long-term results after balloon pulmonary valvuloplasty in adults (Kaul et al). 1993;126:1152-5

Pulmonary infundibular stenosis, coronary artery disease, and aortic regurgitation caused by mediastinal radiation (Horimoto et al). 1993;126:1002-5 (Brief comm.)

Pulmonary valvuloplasty; see Balloon dilatation

Pulmonary veins

Acute pulmonary edema due to pulmonary venous obstruction by left atrial dissection (Grech et al). 1993;126:734-5 (Brief comm.)

Echocardiographic diagnosis of total anomalous pulmonary venous connection (Goswami et al). 1993;126:433-40

Relation of pulmonary venous flow to mean left atrial pressure in mitral stenosis with sinus rhythm (Lee et al). 1993;126:1401-7

Pulse

Unusual case of total pulsus alternans that resulted from varying afterload caused by a subclavian artery rupture (Fitzgerald et al). 1993;126:1000-2 (Brief comm.)

Pulsed Doppler transesophageal echocardiography; see Echocardiography, transesophageal

Pulsed dye laser irradiation; see Laser surgery

Pulsed holmium:YAG laser; see Lasers

Pulseless disease

Coronary ectasia in Takayasu's arteritis (Noma et al). 1993;126:459-61 (Brief comm.)

Surgically treated case of complete obstruction of the left main coronary artery caused by Takayasu's arteritis (Takei et al). 1993;126:458-9 (Brief comm.)

Pulsus alternans; see Pulse

Purulent pericardial effusion; see Pericardial effusion

Purulent pericarditis; see Pericarditis

Q

QRS complex; see Electrocardiography

QT interval; see Electrocardiography

Quantitative angiography; see Coronary angiography

R

Radiation

Pulmonary infundibular stenosis, coronary artery disease, and aortic regurgitation caused by mediastinal radiation (Horimoto et al). 1993;126:1002-5 (Brief comm.)

Radiofrequency ablation; see Catheter ablation

Radiofrequency thermal balloon angioplasty; see Angioplasty, transluminal, percutaneous coronary

Radionuclide imaging

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates (Newman et al). 1993;126:1106-12

Myocardial perfusion scintigraphy in left bundle branch block: a perspective on the issue from image analysis in a clinical context (Krishnan et al). 1993;126:578-86

Radionuclide imaging—Cont'd

Pretreatment with theophylline does not affect adenosine-induced thallium-201 myocardial imaging (Heller et al). 1993;126:1077-83

Rate-adaptive ventricular pacemaker; see Pacemaker, artificial**Rate-pressure product; see Blood pressure; Heart rate****Receptors, androgen**

Hypertrophic cardiomyopathy and increased number of CAG repeats in the androgen receptor gene (Kaneko et al). 1993;126:248-9 (Brief comm.)

Recombinant tissue-type plasminogen activator; see Alteplase**Reexcitability gap; see Heart conduction system****Refractory hypotension; see Hypotension****Refractory period**

Evidence for a reexcitability gap in man after treatment with type I antiarrhythmic drugs (Haberman et al). 1993;126:1121-6

Refractory ventricular fibrillation; see Ventricular fibrillation**Regional blood flow**

Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götsche et al). 1993;126:1417-26

Heterogeneity of reperfusion after reversible regional myocardial ischemia in a canine model (Louie et al). 1993;126:514-20

Regional hemodynamics; see Hemodynamics**Regurgitant jet velocity; see Blood flow velocity****Renal actions; see Kidney****Renin-angiotensin system**

The cardiac renin-angiotensin system in heart failure (Johnston et al). 1993;126:756-60 (Symposium)

Short- and long-term neurohormonal activation following acute myocardial infarction (Sigurdsson et al). 1993;126:1068-76

Reperfusion; see also Myocardial reperfusion

Endothelial dysfunction after reperfusion (Hansen) (Letter); (Lefer et al) (Reply). 1993;126:1489

Endothelial dysfunction in acute myocardial infarction after reperfusion (Bridges et al). 1993;126:451-2 (Brief comm.)

Heterogeneity of reperfusion after reversible regional myocardial ischemia in a canine model (Louie et al). 1993;126:514-20

Noninvasive detection of reperfusion after thrombolysis based on serum creatine kinase MB changes and clinical variables (Ohman et al). 1993;126:819-26

Sudden increase of the ST segment elevation at time of reperfusion predicts extensive infarcts in patients with intravenous thrombolysis (Dissmann et al). 1993;126:832-9

Reproducibility of results

On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt (Patel et al). 1993;126:184-8

Sensitivity and reproducibility of the instantaneous hyperemic flow versus pressure slope index compared to coronary flow reserve for the assessment of stenosis severity (Cleary et al). 1993;126:57-65

Restenosis; see Coronary disease**Restenosis injury, coronary; see Coronary vessels, injuries****Retrograde conduction; see Heart conduction system****Reviewers**

Acknowledgement to reviewers. 1993;126:1269-74

Rheumatic fever

U.S. trends in rheumatic fever and heart disease (Gillum). 1993;126:1496-7 (Letter)

Rheumatic heart disease

U.S. trends in rheumatic fever and heart disease (Gillum). 1993;126:1496-7 (Letter)

Ribonucleic acid; see RNA**Right atrioventricular valve patch dehiscence; see Surgical wound dehiscence****Right heart thromboembolism; see Thromboembolism****Right ventricular cardiomyopathy; see Myocardial diseases****Right ventricular dysplasia; see Heart ventricle, abnormalities****Risk factors**

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress

Risk factors—Cont'd

thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Coronary artery diameter and coronary risk factors: a study with ultrafast computed tomography (Guerra et al). 1993;126:600-6

Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents (Sanchez-Bayle et al). 1993;126:322-6

Metabolic characteristics of hypertension: importance of positive family history (Neutel et al). 1993;126:924-9

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Risk management

Potential impact of pulmonary artery catheter placement on short-term management decisions in the medical intensive care unit (Coles et al). 1993;126:815-9

RNA

Detection of enteroviral ribonucleic acid in myocardial biopsies from patients with idiopathic dilated cardiomyopathy by polymerase chain reaction (Schwaiger et al). 1993;126:406-10

rTPA; see Alteplase**Rupture**

Evolution of echocardiographic modalities in detection of post-myocardial infarction ventricular septal defect and papillary muscle rupture: study of 62 patients (Kishon et al). 1993;126:667-75 (Prog. cardi.)

Unusual case of total pulsus alternans that resulted from varying afterload caused by a subclavian artery rupture (Fitzgerald et al). 1993;126:1000-2 (Brief comm.)

Ruptured aneurysm; see Aneurysm, ruptured**S****Sarcoma, Kaposi's**

Very early appearance of Kaposi's sarcoma after cardiac transplantation in Sephardic Jews (Zahger et al). 1993;126:999-1000 (Brief comm.)

Scars; see Cicatrix**Scintigraphy; see Radionuclide imaging****Scintigraphy, computed tomographic; see Tomography, emission-computed****Sephardic Jews; see Jews****Septal defects, atrial; see Heart septal defects, atrial****Septic shock; see Shock, septic****Serum cholesterol level; see Cholesterol****Serum creatine kinase; see Creatine kinase****Sex factors**

Preoperative pulmonary hemodynamics and early mortality after orthotopic cardiac transplantation: the Pittsburgh experience (Murali et al). 1993;126:896-904

Sex-related differences in patients undergoing direct angioplasty for acute myocardial infarction (Vacek et al). 1993;126:521-5

Shock, septic

Endothelin-1 and atrial natriuretic peptide in septic shock (Mitsuka et al). 1993;126:466-8 (Brief comm.)

Shotgun pellets; see Firearms**Shunting**

Detection of left-to-right shunt in atrial septal defect by negative contrast echocardiography: a comparison of transthoracic and transesophageal approach (Konstantinides et al). 1993;126:909-17

Selective presaturation magnetic resonance angiography: new method for detecting intracardiac shunts (Hartnell et al). 1993;126:1032-4 (Brief comm.)

Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation (Marcus and Wong). 1993;126:1482-4 (Brief comm.)

Sickle cell anemia; see Anemia, sickle cell**Signal-averaged electrocardiography; see Electrocardiography****Single-photon, emission-computed tomography; see Tomography, emission-computed, single-photon**

Sinus of Valsalva

- Angioplasty of the right coronary artery with origin of all three coronary arteries from a single ostium in the right sinus of Valsalva (Chan et al). 1993;126:985-7 (Brief comm.)
- Echocardiographic diagnosis of aneurysm of the sinus of Valsalva (Dev et al). 1993;126:930-6 (Curriculum cardiol.)
- Flail tricuspid valve in ruptured aneurysm of the right sinus of Valsalva (Yanase et al). 1993;126:747-9 (Brief comm.)

Sinus rhythm; see Heart rate

Skin, blood supply

- Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics (Seino et al). 1993;126:887-95

Smoking

- Low-nicotine cigarettes on CAD (Galante et al) (Letter); (Moreyra et al) (Reply). 1993;126:1491

Smooth muscle, vascular; see Muscle, smooth, vascular

Software

- Can the same edge-detection algorithm be applied to on-line and off-line analysis systems? Validation of a new cinefilm-based geometric coronary measurement software (Haase et al). 1993;126:312-21

Sotalol

- Comparative hemodynamic effects of amiodarone, sotalol, and d-sotalol (Twidale et al). 1993;126:122-9

Spain

- Fibrinogen as a cardiovascular risk factor in Spanish children and adolescents (Sanchez-Bayle et al). 1993;126:322-6

Spasm

- CNS-mediated coronary spasm (Friedman) (Letter); (MacAlpin) (Reply). 1993;126:1490-1

Spatial acceleration; see Blood flow velocity

SPECT; see Tomography, emission-computed, single-photon

Spiramycin

- QT interval prolongation and cardiac arrest during antibiotic therapy with spiramycin in a newborn infant (Stramba-Badiale et al). 1993;126:740-2 (Brief comm.)

ST segment; see Electrocardiography

Staphylococcus aureus

- Four-valve endocarditis resulting from *Staphylococcus aureus* diagnosed by biplane transesophageal echocardiography (Bernstein et al). 1993;126:251-4 (Brief comm.)

Stenosis; see Coronary disease

Stents

- Angioscopy: a valuable tool in the deployment and evaluation of intracoronary stents (Strumpf et al). 1993;126:1204-10 (Prog. cardiol.)
- Balloon expandable intravascular stents: aortic implantation and late further dilation in growing minipigs (Grifka et al). 1993;126:979-84 (Prog. cardiol.)
- Brachial approach for intracoronary stent implantation: a feasibility study (Resar et al). 1993;126:300-4
- Effects of stent design and serum cholesterol level on the restenosis rate in atherosclerotic rabbits (Tominaga et al). 1993;126:1049-58
- Emergency coronary stenting with the Palmaz-Schatz stent for failed transluminal coronary angioplasty: results of a learning phase (Kiemeneij et al). 1993;126:23-31
- Subacute thrombotic complications after intracoronary implantation of Palmaz-Schatz stents (Haude et al). 1993;126:15-22

Stethoscopic devices; see Equipment and supplies

STO; see Electrocardiography

Streptococcus agalactiae

- Purulent pericarditis caused by group B streptococcus with pericardial tamponade (Karim et al). 1993;126:727-31 (Brief comm.)

Stress, psychological

- Response of the QT-sensing rate-adaptive ventricular pacemaker to mental stress (Frais et al). 1993;126:1219-22 (Brief comm.)

Stress test; see Exercise test

Stroke; see Cerebrovascular disorders

Stroke volume

- Determination of ventricular elastance with echocardiography: A reality? (Prabhu and Zabalgaitia). 1993;126:500-2 (Editorial)

Subacute thrombotic complications; see Thrombosis

Subarachnoid hemorrhage

- Reversible left ventricular dysfunction after subarachnoid hemorrhage (Handlin et al). 1993;126:235-40 (Brief comm.)

Subclavian artery

- Percutaneous transluminal angioplasty for subclavian artery stenosis in patients with subclavian steal syndrome and coronary subclavian steal syndrome (Crowe and Iannone). 1993;126:229-33 (Brief comm.)
- Unusual case of total pulsus alternans that resulted from varying afterload caused by a subclavian artery rupture (Fitzgerald et al). 1993;126:1000-2 (Brief comm.)

Subclavian steal syndrome

- Coronary subclavian steal syndrome (Samoil and Schwartz). 1993;126:1463-6 (Brief comm.)
- Percutaneous transluminal angioplasty for subclavian artery stenosis in patients with subclavian steal syndrome and coronary subclavian steal syndrome (Crowe and Iannone). 1993;126:229-33 (Brief comm.)

Subcutaneous injections; see Injections, subcutaneous

Subendocardial smooth muscle; see Muscle, smooth, vascular

Subhuman primate model; see Disease models, animal

Superior vena cava syndrome

- Superior vena cava syndrome after repeated insertion of transvenous pacemaker (Yoon et al). 1993;126:1014-5 (Brief comm.)

Superoxide dismutase

- High- and low-dose superoxide dismutase plus catalase does not reduce myocardial infarct size in a subhuman primate model (Watanabe et al). 1993;126:840-6

Supraventricular tachycardia; see Tachycardia, supraventricular

Surgical drainage; see Drainage

Surgical scars; see Cicatrix

Surgical wound dehiscence

- Transesophageal echocardiographic diagnosis of right atrioventricular valve patch dehiscence causing intracardiac right-to-left shunting after Fontan operation (Marcus and Wong). 1993;126:1482-4 (Brief comm.)

Survival

- Angiotensin-converting enzyme inhibition in congestive heart failure: benefit and perspective (Pfeffer). 1993;126:789-93 (Symposium)
- Interposed abdominal compression-cardiopulmonary resuscitation: Are we missing the mark in clinical trials? (Babbs). 1993;126:1035-41 (Editorial)

Swine model; see Disease models, animal

Sympathetic efferent activities; see Neurons, efferent

Sympathetic nervous system

- Effects of canine myocardial infarction on sympathetic efferent neuronal function: scintigraphic and electrophysiologic correlates (Newman et al). 1993;126:1106-12
- Short- and long-term neurohormonal activation following acute myocardial infarction (Sigurdsson et al). 1993;126:1068-76

Syncope

- Recurrent pulmonary embolism with second-degree atrioventricular block and near syncope (Akinboboye et al). 1993;126:731-2 (Brief comm.)
- Vasovagal syncope elicited by extracorporeal shock wave lithotripsy (Kataoka and Tanigawa). 1993;126:258-9 (Brief comm.)

Syndrome myxoma; see Myxoma

Systemic embolization; see Embolism

Systemic hemodynamics; see Hemodynamics

Systemic hypertension; see Hypertension

Systemic lupus erythematosus; see Lupus erythematosus, systemic

Systole

- Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction (Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)
- Myocardial contractile state in dogs with chronic mitral regurgitation: echocardiographic approach to the peak systolic pressure/end-systolic area relationship (Dávila-Román et al). 1993;126:155-60
- Systolic-diastolic shunt murmur in ventricular septal rupture after myocardial infarction (Schwammenthal et al). 1993;126:221-5 (Brief comm.)

T

Tachycardia

- Radiofrequency catheter ablation of the accessory pathway in the permanent form of junctional reciprocating tachycardia (Boyce et al). 1993;126:716-9 (Brief comm.)

Tachycardia, atrioventricular nodal reentry

Clinical features and electrophysiologic characteristics of accessory atrioventricular pathways and atrioventricular nodal reentrant tachycardia: comparative study between young and elderly patients (Wu et al). 1993;126:1341-8

Role of a long-short sequence for initiation of atrioventricular reentry in Wolff-Parkinson-White syndrome (Yamashita et al). 1993;126:742-4 (Brief comm.)

Usefulness of serial follow-up electrophysiologic studies in predicting late outcome of radiofrequency ablation for accessory pathways and atrioventricular nodal reentrant tachycardia (Chen et al). 1993;126:619-25

Tachycardia, supraventricular

Regression of a dilated cardiomyopathy after radiofrequency ablation of incessant supraventricular tachycardia (Corey et al). 1993;126:1469-73 (Brief comm.)

Tachycardia, ventricular

Determinants of inducible ventricular tachycardia in patients with clinical ventricular tachyarrhythmia and no apparent structural heart disease (Brodsky et al). 1993;126:1113-20

Dynamics of the QT interval in patients with exercise-induced ventricular tachycardia in normal and abnormal hearts (Gill et al). 1993;126:1357-63

Electrocardiographic patterns relative to initiating mechanisms of exercise-induced ventricular tachycardia (Tuininga et al). 1993;126:359-67

Nonsustained ventricular tachycardia: identification and management of high-risk patients (Pires and Huang). 1993;126:189-200 (Curriculum cardiol.)

Spectrum of right heart involvement in patients with ventricular tachycardia unrelated to coronary artery disease or left ventricular dysfunction (Orlov et al). 1993;126:1348-56

Ventricular tachycardia in patients without structural heart disease (Bhadha et al). 1993;126:1194-8 (Curriculum cardiol.)

Verapamil for the suppression of idiopathic ventricular tachycardia of left bundle branch block-like morphology (Gill et al). 1993;126:1126-33

Takayasu's arteritis; see Pulseless disease**Teboroxime**

Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62

Technetium-99m antimony; see Myosin**Technetium-99m isonitrite**

Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite (Wolfe et al). 1993;126:1275-86

Technetium-99m sestamibi

Simultaneous assessment of left ventricular perfusion and function with technetium-99m sestamibi after coronary artery bypass grafting (Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)

Technology

Interventional electrophysiology—state-of-the-art 1993 (Lesh). 1993;126:686-98 (Prog. cardiol.)

TEE; see Echocardiography, transesophageal**Thallium**

Biplane transesophageal pacing echocardiography compared with dipyridamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease (Norris et al). 1993;126:676-85 (Prog. cardiol.)

Comparative prognostic value of clinical risk indexes, resting two-dimensional echocardiography, and dipyridamole stress thallium-201 myocardial imaging for perioperative cardiac events in major nonvascular surgery patients (Takase et al). 1993;126:1099-106

Comparison of 3- versus 6-minute infusions of adenosine in thallium-201 myocardial perfusion imaging (Villegas et al). 1993;126:103-7

Comparison of teboroxime and thallium for the reversibility of exercise-induced myocardial perfusion defects (Hendel et al). 1993;126:856-62

The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32

Pretreatment with theophylline does not affect adenosine-induced thallium-201 myocardial imaging (Heller et al). 1993;126:1077-83

Thallium—Cont'd

Usefulness of exercise SPECT-thallium to detect asymptomatic restenosis in patients who had angina before coronary angioplasty (Marie et al). 1993;126:571-7

Theophylline

Pretreatment with theophylline does not affect adenosine-induced thallium-201 myocardial imaging (Heller et al). 1993;126:1077-83

Thermal balloon angioplasty; see Angioplasty, transluminal, percutaneous coronary**Thermololol**

Pulsed Doppler transesophageal echocardiographic determination of cardiac output in human beings: comparison with thermololol technique (Stoddard et al). 1993;126:956-62 (Prog. cardiol.)

Thoracic arteries

Mobile thrombi in atherosclerotic lesions of the thoracic aorta: the diagnostic impact of transesophageal echocardiography (Dee et al). 1993;126:707-10 (Brief comm.)

Thrombocytopenia, hemorrhagic

Arterial thrombosis in thrombocytopenia (Michiels et al). 1993;126:1495-6 (Letter)

Thrombocytopenia

Transesophageal echocardiography in patients with heparin-induced thrombocytopenia and thrombosis (Movsowitz et al). 1993;126:1011-3 (Brief comm.)

Thromboembolism

Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transesophageal echocardiographic findings of left atrial thrombus (Salka et al). 1993;126:722-4 (Brief comm.)

Effectiveness of intravenous tPA in the treatment of massive pulmonary embolism and right heart thromboembolism (Cuccia et al). 1993;126:468-72 (Brief comm.)

Low incidence of stroke in ambulatory patients with heart failure: a prospective study (Katz et al). 1993;126:141-6

Thrombolytic therapy

A comparison of heparin strategies after thrombolytic therapy (Becker et al). 1993;126:750-2 (Brief comm.)

Facts and fears regarding blood transfusions in decision making for thrombolytic therapy (Sugarman et al). 1993;126:494-9 (Editorial)

Hemorrhagic potential of combined diltiazem and recombinant tissue-type plasminogen activator administration (Becker et al). 1993;126:11-4

Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction (Hirai et al). 1993;126:827-31

Long-term effects of acute thrombolytic therapy on ventricular size and function (Picard et al). 1993;126:1-10

Noninvasive detection of reperfusion after thrombolysis based on serum creatine kinase MB changes and clinical variables (Ohman et al). 1993;126:819-26

Sudden increase of the ST segment elevation at time of reperfusion predicts extensive infarcts in patients with intravenous thrombolysis (Dissmann et al). 1993;126:832-9

Thrombophlebitis

Arterial thrombosis in thrombocytopenia (Michiels et al). 1993;126:1495-6 (Letter)

Thrombosis

Cerebral thromboembolization after cardioversion of atrial fibrillation in patients without transesophageal echocardiographic findings of left atrial thrombus (Salka et al). 1993;126:722-4 (Brief comm.)

Diagnosis of papillary fibroelastoma of the mitral valve complicated by non-Q-wave infarction with apical thrombus: transesophageal and transthoracic echocardiographic study (Richard et al). 1993;126:710-2 (Brief comm.)

Failure of prostacyclin analog iloprost to sustain coronary blood flow after recombinant tissue-type plasminogen-induced thrombolysis in dogs (Nichols et al). 1993;126:285-92

Mobile thrombi in atherosclerotic lesions of the thoracic aorta: the diagnostic impact of transesophageal echocardiography (Dee et al). 1993;126:707-10 (Brief comm.)

Ovarian vein thrombosis (Simons et al). 1993;126:641-7 (Curriculum cardiol.)

Subacute thrombotic complications after intracoronary implantation of Palmaz-Schatz stents (Haude et al). 1993;126:15-22

Thrombosis—Cont'd

- Superior vena cava syndrome after repeated insertion of transvenous pacemaker (Yoon et al). 1993;126:1014-5 (Brief comm.)
- Transesophageal echocardiography in patients with heparin-induced thrombocytopenia and thrombosis (Movsowitz et al). 1993;126:1011-3 (Brief comm.)
- Treatment of pacemaker-associated right atrial thrombus with 2-hour rTPA infusion (Cooper et al). 1993;126:228-9 (Brief comm.)

Tilt table test

- On the frequency and reproducibility of orthostatic blood pressure changes in healthy community-dwelling elderly during 60-degree head-up tilt (Patel et al). 1993;126:184-8

Tissue-type plasminogen activator; see Alteplase

Tomography

- The effect of systemic hypertension on exercise tomographic thallium-201 imaging in the absence of electrocardiographic left ventricular hypertrophy (Grogan et al). 1993;126:327-32

Tomography, emission-computed

- Heterogeneity of the human myocardial sympathetic innervation: in vivo demonstration by iodine 123-labeled meta-iodobenzylguanidine scintigraphy (Gill et al). 1993;126:390-8

Tomography, emission-computed, single-photon

- Assessment of perfused left ventricular mass in normal, ischemic, and reperfused myocardium by means of single-photon emission computed tomography of technetium-99m isonitrite (Wolfe et al). 1993;126:1275-86
- Biplane transesophageal pacing echocardiography compared with dipyridamole thallium-201 single-photon emission computed tomography in detecting coronary artery disease (Norris et al). 1993;126:676-85 (Prog. cardiol.)

Tomography, x-ray computed

- Coronary artery diameter and coronary risk factors: a study with ultrafast computed tomography (Guerra et al). 1993;126:600-6
- Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography (Yamaoka et al). 1993;126:1372-9

Torsades de pointes

- Torsades de pointes with almokalant, a new class III antiarrhythmic drug (Wiesfeld et al). 1993;126:1008-11 (Brief comm.)

Transdermal administration; see Administration, cutaneous

Transesophageal echocardiography; see Echocardiography, transesophageal

Translesional pressure gradients; see Blood pressure

Transluminal coronary angioplasty; see Angioplasty, transluminal, percutaneous coronary

Transmitral diastolic flow; see Diastole

Transmitral filling velocity; see Blood flow velocity

Transmitral flow; see Regional blood flow

Transplantation, homologous

- Cardiac allograft vasculopathy (Ardehali et al). 1993;126:1498-502 (Editorial)

Transposition of great vessels

- Anatomically corrected malposition: report of six cases (Dalvi and Sharma). 1993;126:1229-32 (Brief comm.)

Transseptal balloon valvuloplasty; see Balloon dilatation

Transthoracic echocardiography; see Echocardiography

Transvenous pacemaker; see Pacemaker, artificial

Transverse sinus; see Heart, anatomy

Treadmill exercise; see Exercise test

Tricuspid regurgitation; see Tricuspid valve insufficiency

Tricuspid valve

- Flail tricuspid valve in ruptured aneurysm of the right sinus of Valsalva (Yanase et al). 1993;126:747-9 (Brief comm.)

Tricuspid valve insufficiency

- Congenital left ventricular diverticulum with ventricular septal defect, mitral and tricuspid regurgitation, and coronary disease (Yamashita et al). 1993;126:461-3 (Brief comm.)

Triglycerides

- Specific myocardial disease caused by multisystemic triglyceride storage in Jordans' anomaly (Takahira et al). 1993;126:995-7 (Brief comm.)

Trypanosoma cruzi

- Chagas' disease in North America (Reyes). 1993;126:1496 (Letter)

TTE; see Echocardiography

Tuberculous pericarditis; see Pericarditis, tuberculous

Tunica intima

- Comparison of intimal thickening of Chinese and New Zealand coronary arteries (Sims et al). 1993;126:863-71

Twins

- Right ventricular cardiomyopathy in identical and nonidentical young twins (Buja et al). 1993;126:1187-93

Two-dimensional echocardiography; see Echocardiography

Type A personality

- Medical diagnosis of type A behavior (Friedman and Ghandour). 1993;126:607-18

U

Ulcer

- Penetrating atherosclerotic aortic ulcers: the role of transesophageal echocardiography in diagnosis and clinical management (Movsowitz et al). 1993;126:745-7 (Brief comm.)

Ultrafast computed tomography; see Tomography, x-ray computed

Ultrasonography

- Assessment of coronary vasomotion by intracoronary ultrasound (Dupouy et al). 1993;126:76-85
- De novo appearance of a myocardial bridge in heart transplant: assessment by intravascular ultrasonography, Doppler, and angiography (Jain et al). 1993;126:453-6 (Brief comm.)
- Histopathologic correlation of the three-layered intravascular ultrasound appearance of normal adult human muscular arteries (Siegel et al). 1993;126:872-8
- Mechanisms of angiographically successful directional coronary atherectomy: evaluation by intracoronary ultrasound and comparison with transluminal coronary angioplasty (Nair et al). 1993;126:507-14
- Use of Doppler guide wire for intraluminal diagnosis to facilitate coronary intervention (Heuser et al). 1993;126:213-8 (Prog. cardiol.)

Umbilical veins

- Umbilical vein cardiac catheterization (Saxena et al) (Letter); (Appleton et al) (Reply). 1993;126:1494

Unstable angina; see Angina, unstable

V

Valsalva's maneuver

- Abnormal Valsalva blood pressure response in dilated cardiomyopathy: association with "pseudonormalization" of echocardiographic Doppler transmitral filling velocity pattern (Schwengel et al). 1993;126:1182-6

Valvotomy, balloon; see Balloon dilatation

Valvuloplasty, balloon; see Balloon dilatation

Vascular connections, superfluous; see Coronary vessel anomalies

Vascular diseases

- Cardiac allograft vasculopathy (Ardehali et al). 1993;126:1498-502 (Editorial)

Vascular intima; see Tunica intima

Vascular patency

- Emergency coronary stenting with the Palmaz-Schatz stent for failed transluminal coronary angioplasty: results of a learning phase (Kiemeneij et al). 1993;126:23-31

Vasodilation

- Assessment of coronary vasomotion by intracoronary ultrasound (Dupouy et al). 1993;126:76-85

Vasodilator agents

- Acute and long-term effects of flosequinan in patients with chronic cardiac failure (Marchionni et al). 1993;126:147-54

Vasomotor system

- Abnormal cutaneous vasomotion and reduced cutaneous blood mass remain in congestive heart failure even with normalized cardiovascular hemodynamics (Seino et al). 1993;126:887-95
- Assessment of coronary vasomotion by intracoronary ultrasound (Dupouy et al). 1993;126:76-85
- Changing vasomotor responses of coronary arteries to nifedipine (Raby et al). 1993;126:333-8
- Inhibition of endothelium-dependent vasorelaxation by sickle erythrocytes (Mosseri et al). 1993;126:338-46

Vasovagal syncope; see Syncope

Ventricular aneurysm; see Aneurysm

Ventricular cardiomyopathy; see Cardiomyopathy**Ventricular diverticulum; see Diverticulum****Ventricular dysplasia; see Heart ventricle, abnormalities****Ventricular fibrillation**

Idiopathic ventricular fibrillation and bradycardia-dependent intraventricular block (Aizawa et al). 1993;126:1473-4 (Brief comm.)

Innovative emergency defibrillation methods for refractory ventricular fibrillation in a variety of hospital settings (Cohen). 1993;126:962-8 (Prog. cardiol.)

Ventricular free wall rupture; see Heart rupture**Ventricular function**

Abnormal postoperative interventricular motion: new intraoperative transesophageal echocardiographic evidence supports a novel hypothesis (Wranne et al). 1993;126:161-7

Age-related changes in left and right ventricular filling velocity profiles and their relationship in normal subjects (Iwase et al). 1993;126:419-26

Determination of ventricular elastance with echocardiography: A reality? (Prabhu and Zabalgaitia). 1993;126:500-2 (Editorial)

Long-term effects of acute thrombolytic therapy on ventricular size and function (Picard et al). 1993;126:1-10

Ventricular function, left

Abnormal changes in transmitral flow after acute exposure to nitroglycerin and nifedipine in uncomplicated insulin-dependent diabetes mellitus: a Doppler echocardiographic study (Götsche et al). 1993;126:1417-26

Diastolic left ventricular dysfunction leading to severe reversible pulmonary hypertension (Kessler et al). 1993;126:234-5 (Brief comm.)

Doppler echocardiographic assessment of left ventricular filling in idiopathic dilated cardiomyopathy during a one-year follow-up: relation to the clinical course of disease (Werner et al). 1993;126:1408-16

Exercise and morphologic comparison of chronic atrial fibrillation and normal sinus rhythm (Ueshima et al). 1993;126:260-1 (Brief comm.)

Importance of ischemic preconditioning and collateral circulation for left ventricular functional recovery in patients with successful intracoronary thrombolysis for acute myocardial infarction (Hirai et al). 1993;126:827-31

Reversible left ventricular dysfunction after subarachnoid hemorrhage (Handlin et al). 1993;126:235-40 (Brief comm.)

The role of the coronary collateral circulation in limiting myocardial ischemia and infarct size (Charney and Cohen). 1993;126:937-45

Simultaneous assessment of left ventricular perfusion and function with technetium-99m sestamibi after coronary artery bypass grafting (Iskandrian et al). 1993;126:1199-203 (Prog. cardiol.)

Ventricular tachycardia in patients without structural heart disease (Bhadha et al). 1993;126:1194-8 (Curriculum cardiol.)

Ventricular function, right

Spectrum of right heart involvement in patients with ventricular tachycardia unrelated to coronary artery disease or left ventricular dysfunction (Orlov et al). 1993;126:1348-56

Ventricular function, right—Cont'd

Ventricular tachycardia in patients without structural heart disease (Bhadha et al). 1993;126:1194-8 (Curriculum cardiol.)

Ventricular mass; see Heart ventricle, anatomy**Ventricular outflow obstruction**

Doppler evidence of abnormal intracavitary systolic and diastolic flow in hypertrophic cardiomyopathy with midventricular obstruction (Barbier and Bartorelli). 1993;126:483-7 (Brief comm.)

Pharmacologic abolition of severe mitral regurgitation associated with dynamic left ventricular outflow tract obstruction after mitral valve repair: confirmation by transesophageal echocardiography (Webster et al). 1993;126:480-3 (Brief comm.)

Right ventricular outflow tract obstruction: augmented diagnosis with biplane transesophageal echocardiography (Chazouilleres et al). 1993;126:477-80 (Brief comm.)

Ventricular pacemaker; see Pacemaker, artificial**Ventricular pressure, left; see Blood pressure****Ventricular septal defects; see Heart septal defects, ventricular****Ventricular septal rupture; see Heart rupture****Ventricular size; see Heart ventricle****Ventricular tachyarrhythmia; see Tachycardia, ventricular****Ventricular tachycardia; see Tachycardia, ventricular****Ventriculography**

Evaluation of left ventricular mass: comparison of ultrafast computed tomography, magnetic resonance imaging, and contrast left ventriculography (Yamaoka et al). 1993;126:1372-9

Verapamil

Verapamil for the suppression of idiopathic ventricular tachycardia of left bundle branch block-like morphology (Gill et al). 1993;126:1126-33

Videodensitometric technique; see Coronary angiography**Volumetric flow measurements; see Coronary circulation****W****Water intake; see Drinking****Wolff-Parkinson-White syndrome**

Role of a long-short sequence for initiation of atrioventricular reentry in Wolff-Parkinson-White syndrome (Yamashita et al). 1993;126:742-4 (Brief comm.)

Women

Risk factors and mortality among black, Caucasian, and Latina women with acute myocardial infarction (Norris et al). 1993;126:1312-9

Wounds, gunshot

Acute occlusion of the left anterior descending coronary artery by shotgun pellets (Nerantzis et al). 1993;126:452-3 (Brief comm.)

